

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P651553

Luminaire Tested: **GALN-SA8D-840-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-840-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47405.5 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

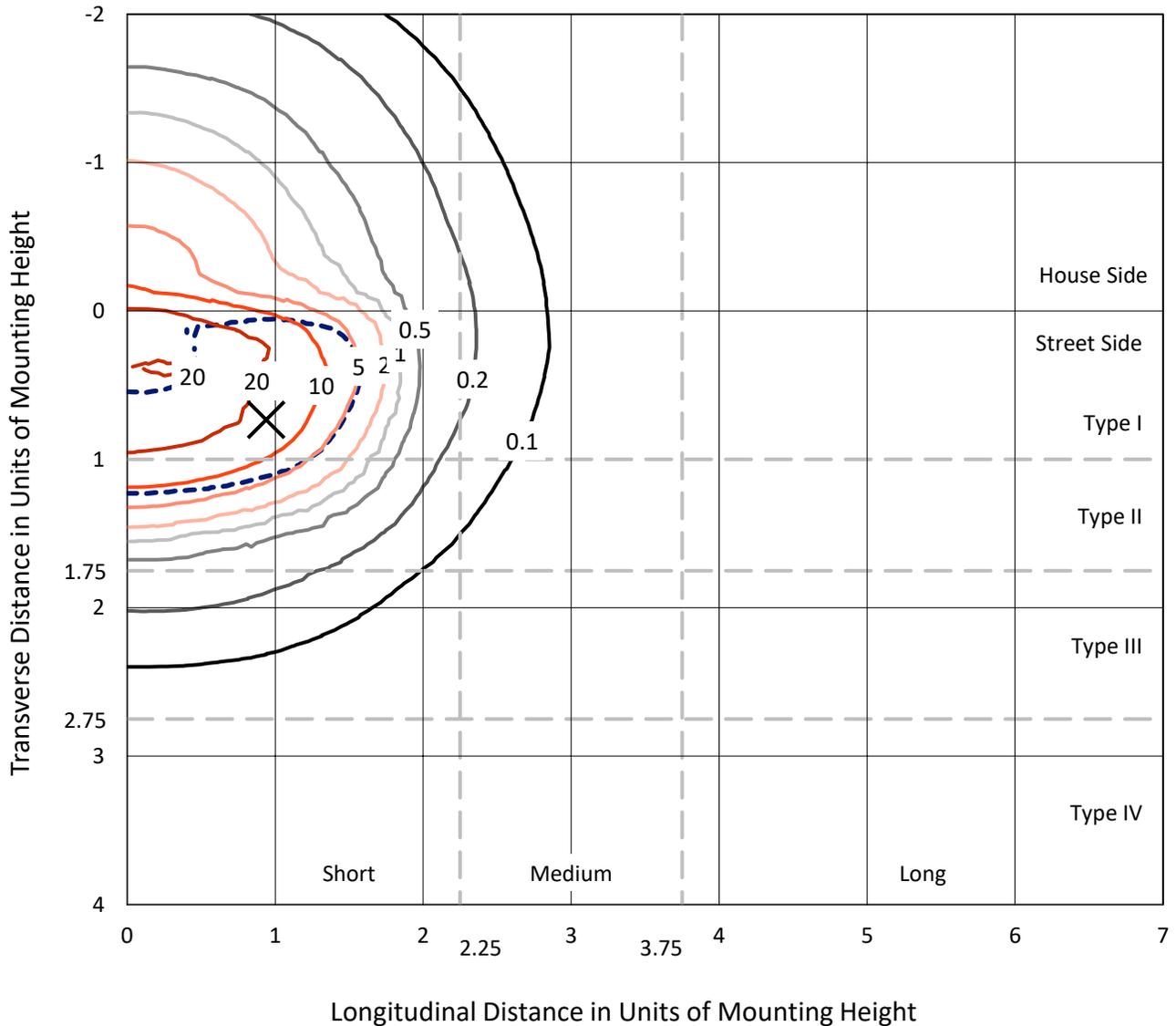
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

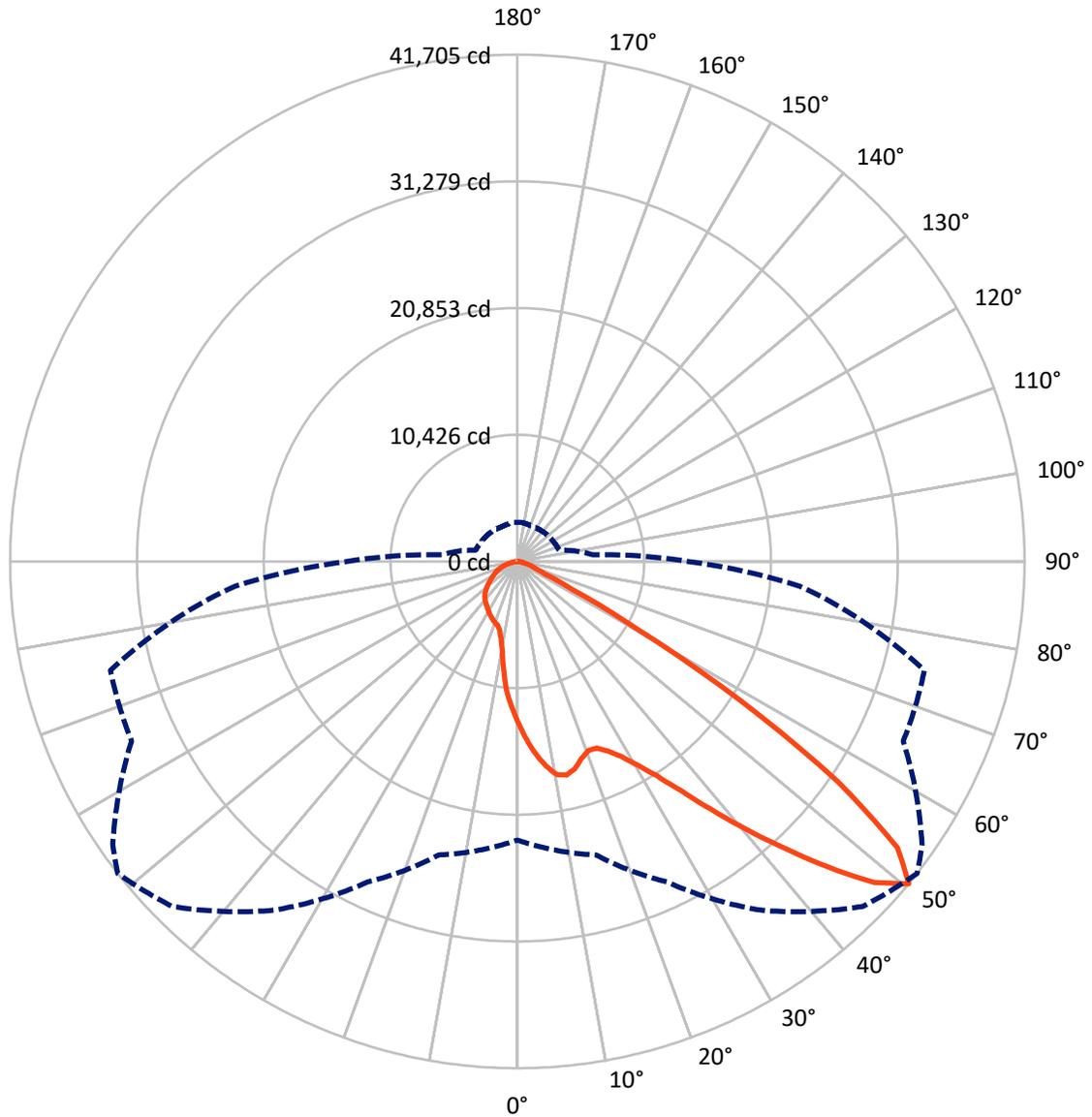
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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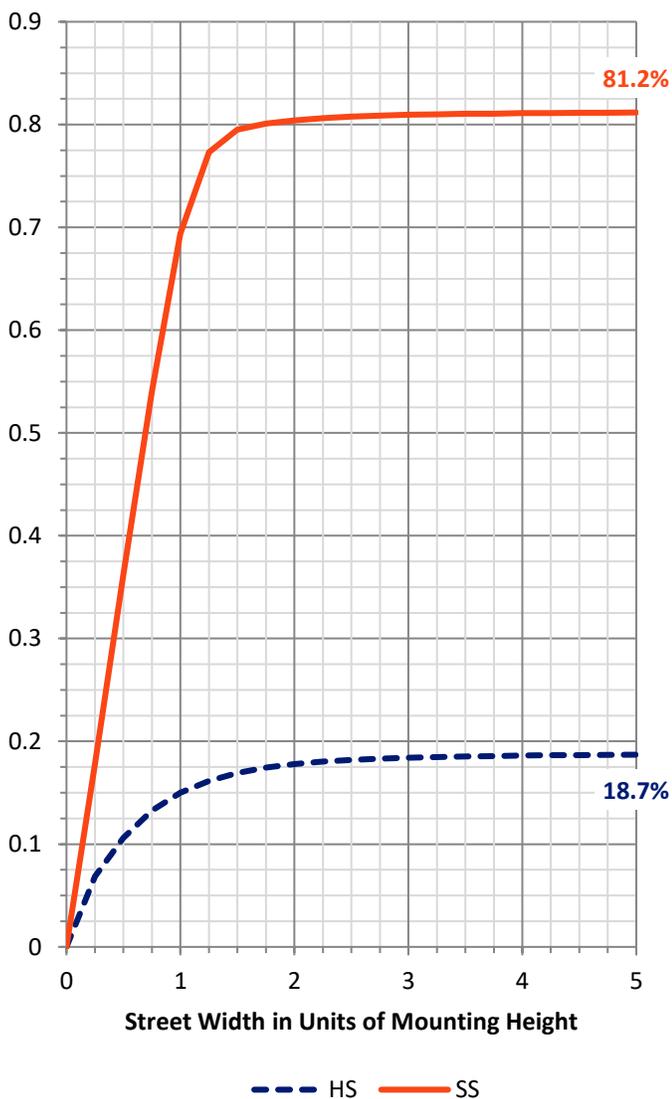
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8911.1	0.0	8911.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	38494.4	0.0	38494.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	47405.5	0.0	47405.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1231.7	2.6
10°-20°	3301.1	7.0
20°-30°	5560.6	11.7
30°-40°	9331.2	19.7
40°-50°	14274.4	30.1
50°-60°	10407.2	22.0
60°-70°	2316.1	4.9
70°-80°	835.4	1.8
80°-90°	147.9	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	47405.5	100.0
0°-180°	47405.5	100.0

Coefficient of Utilization



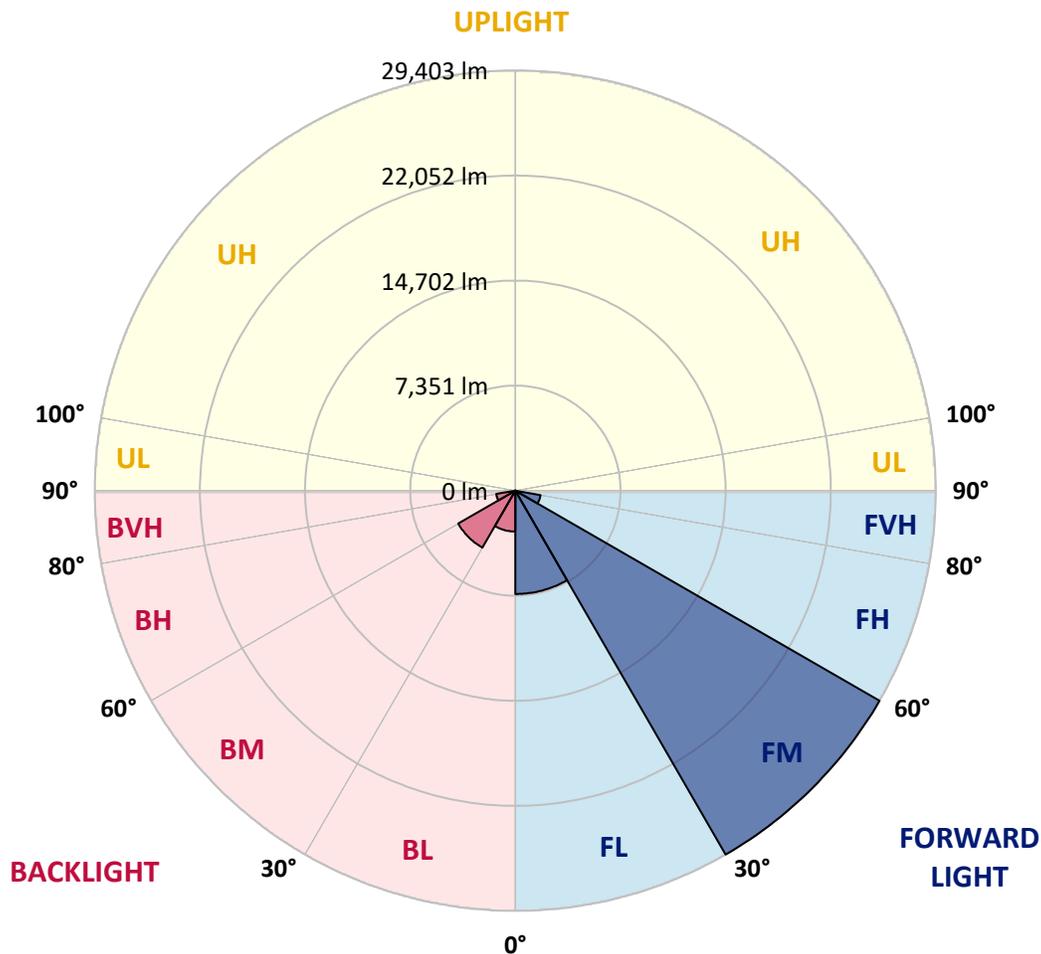
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7231.0	15.3			
FM (30°-60°)	29403.3	62.0			
FH (60°-80°)	1793.9	3.8			G1/1800
FVH (80°-90°)	66.3	0.1			G1/100
BL (0°-30°)	2862.4	6.0	B4/5000		
BM (30°-60°)	4609.4	9.7	B3/5000		
BH (60°-80°)	1357.6	2.9	B3/2500		G3/2500
BVH (80°-90°)	81.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	13362.8	13362.8	13362.8	13362.8	13362.8	13362.8	13362.8	13362.8	13362.8	13362.8	13362.8
2.5°	15733.8	15430.9	15465.2	15248.1	15013.9	14945.3	14705.4	14476.9	14305.5	13939.8	13602.8
5°	17196.3	17104.8	16967.8	16796.4	16619.3	16185.0	15939.4	15653.8	15025.3	14459.7	13899.9
7.5°	17407.7	17390.5	17464.8	17464.8	17527.6	17361.9	17013.4	16813.5	16145.1	15225.3	14185.5
10°	15922.2	15973.7	16333.6	16802.1	17453.4	17904.7	17847.5	17796.1	17064.9	15808.0	14522.6
12.5°	14739.7	14625.4	14836.8	15236.7	16213.6	17304.8	18041.8	18047.5	17859.0	16739.3	14768.2
15°	14071.3	14151.3	14208.4	14396.9	15133.9	16396.5	17693.3	18076.1	18904.5	17396.3	15156.8
17.5°	14499.7	14231.2	14219.8	14265.5	14642.6	15590.9	17047.7	17704.7	19475.8	18241.8	15636.6
20°	15059.6	15053.9	14893.9	14836.8	14831.0	15676.6	16625.0	17516.2	19778.6	19338.7	16122.2
22.5°	16042.2	16042.2	15779.4	15653.8	15385.3	16076.6	16682.1	17287.7	20281.3	20092.8	16356.4
25°	17687.6	17419.0	16967.8	16659.3	16505.0	16750.6	17287.7	17830.5	20721.2	20892.6	16842.0
27.5°	19207.3	18784.5	18561.7	18030.4	17824.7	17681.9	18173.2	18721.7	21235.4	22138.1	17104.8
30°	20932.6	20858.3	20458.4	19772.8	19264.4	19001.6	19452.9	19995.7	22178.1	23412.1	17710.5
32.5°	24017.7	23343.6	22800.8	21960.9	21132.6	20572.7	21018.3	21378.2	23743.4	24743.2	18373.2
35°	27348.4	27131.2	26194.3	24680.4	23412.1	22909.3	23172.2	23440.6	25565.9	26777.0	19487.2
37.5°	30621.9	30324.9	29553.6	28279.6	26737.1	25714.4	25903.0	26217.2	27611.1	29519.4	20846.9
40°	32975.7	32610.1	32221.6	32033.1	30502.0	29102.3	28993.7	29073.7	30376.2	32090.2	22355.1
42.5°	33147.1	33598.5	33718.4	34478.2	34118.4	32970.0	32301.5	32318.7	33015.7	34632.5	23880.5
45°	32787.2	32370.2	33255.7	35329.5	36517.8	37054.8	35929.4	35786.6	34649.6	36106.5	24640.4
47.5°	29010.9	29125.1	30621.9	33901.2	37334.8	39734.2	39471.5	38997.3	35523.8	36055.0	24520.4
50°	22932.2	23623.4	25011.8	29096.6	35049.5	40157.0	41705.3	40608.4	35003.8	34638.2	23297.8
52.5°	15271.0	15556.6	16470.7	21743.9	28182.5	35895.1	39134.4	39385.8	34524.0	32781.5	21749.6
55°	6798.6	6775.7	8061.2	11357.5	17681.9	27314.1	31975.9	33507.0	32678.7	30890.4	20241.4
57.5°	2879.4	2976.5	3502.1	4907.5	8695.3	16482.2	21663.9	23006.5	25131.7	25365.9	15528.1
60°	1948.2	1959.6	2102.4	2456.6	3639.2	7741.2	11363.3	12974.4	14494.0	14391.2	8238.2
62.5°	1531.1	1571.1	1679.6	1822.4	2159.5	3513.5	5084.6	5981.5	6078.7	5113.2	3125.1
65°	1308.3	1314.0	1422.6	1542.6	1691.1	2045.3	2450.9	2496.6	2525.2	2433.8	2296.7
67.5°	1079.8	1091.2	1176.9	1314.0	1451.1	1565.4	1679.6	1736.7	1868.2	2125.3	2091.0
70°	857.0	874.1	948.4	1062.6	1188.3	1256.9	1399.7	1451.1	1571.1	1771.1	1851.0
72.5°	651.3	657.0	719.8	799.8	914.1	982.6	1102.6	1159.7	1239.7	1411.1	1485.4
75°	468.4	485.6	531.3	571.3	588.4	634.1	748.4	811.2	925.5	999.8	1005.5
77.5°	245.7	257.1	268.5	268.5	325.6	411.3	485.6	519.9	599.9	657.0	628.4
80°	97.1	102.9	131.4	177.1	228.5	297.0	348.5	365.7	434.2	468.4	485.6
82.5°	57.1	62.8	85.7	125.6	165.7	211.3	251.4	268.5	314.2	354.2	365.7
85°	28.6	34.3	51.4	80.0	108.6	131.4	125.6	120.0	120.0	114.3	120.0
87.5°	11.4	11.4	17.2	17.2	17.2	22.9	28.6	28.6	28.6	34.3	34.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13362.8	13362.8	13362.8	13362.8	13362.8	13362.8	13362.8	13362.8	13362.8	13362.8	13362.8
2.5°	13380.0	13151.5	12940.0	12551.6	12128.8	12008.8	11517.5	11340.4	11214.7	11066.2	11020.5
5°	13448.5	13145.8	12465.9	11683.2	11060.5	10260.6	9735.0	9169.4	8758.1	8655.2	8626.7
7.5°	13591.3	13071.5	11900.3	10717.7	9443.7	8358.2	7529.8	7084.2	6690.0	6667.1	6627.2
10°	13751.3	12848.6	11283.3	9426.5	7798.3	6792.8	6295.8	6101.5	6004.4	5981.5	5970.2
12.5°	13882.7	12803.0	10592.0	8169.6	6632.9	6027.3	5878.8	5861.6	5901.5	5913.0	5935.9
15°	13939.8	12620.1	9757.9	7044.2	5907.3	5684.5	5747.3	5815.9	5844.4	5918.7	5861.6
17.5°	14048.4	12385.9	8729.6	6152.9	5501.7	5541.7	5650.2	5730.2	5775.9	5827.3	5753.0
20°	14105.5	12174.5	7764.0	5621.7	5358.9	5433.1	5581.6	5644.5	5701.6	5724.4	5638.8
22.5°	14054.1	11740.3	6912.8	5193.2	5221.7	5318.8	5450.3	5518.8	5484.5	5393.1	5341.7
25°	13917.0	11129.0	6027.3	4918.9	5027.5	5198.9	5301.7	5250.3	5187.5	5136.1	5118.9
27.5°	13911.2	10380.6	5387.4	4667.6	4861.8	5096.0	5061.7	5016.1	5044.7	5004.6	4959.0
30°	13939.8	9655.0	4861.8	4524.7	4741.8	4856.1	4896.0	4850.4	4884.7	4810.4	4833.2
32.5°	13791.3	8946.6	4519.0	4359.1	4599.0	4593.3	4724.7	4759.0	4679.0	4524.7	4547.6
35°	13854.1	8375.4	4227.6	4284.8	4439.1	4439.1	4541.9	4501.9	4290.5	4199.1	4221.9
37.5°	14288.3	7815.4	4084.8	4182.0	4284.8	4330.5	4296.2	4124.9	4073.4	4073.4	4084.8
40°	14699.7	7335.5	3999.1	4159.1	4141.9	4170.5	3919.1	3936.3	3936.3	3942.0	3913.4
42.5°	15065.3	7009.9	3930.6	4022.0	4050.6	3902.0	3747.7	3730.6	3770.6	3764.9	3742.0
45°	15196.7	6741.4	3833.4	3867.8	3890.6	3644.9	3570.6	3536.4	3582.1	3599.2	3622.1
47.5°	14694.0	6518.6	3724.9	3656.3	3610.7	3450.7	3353.6	3290.7	3347.9	3445.0	3467.8
50°	14048.4	6227.2	3553.5	3422.1	3325.0	3256.4	3187.9	3125.1	3165.0	3233.6	3216.4
52.5°	13094.3	5770.2	3336.4	3199.3	3033.7	3050.7	2987.9	2953.7	2976.5	2976.5	2959.4
55°	11734.6	4741.8	2970.7	2873.7	2736.5	2782.3	2793.7	2748.0	2702.3	2742.2	2708.0
57.5°	8009.7	3347.9	2650.8	2650.8	2513.7	2576.6	2570.9	2462.4	2353.8	2365.2	2342.4
60°	4633.3	2668.0	2445.2	2422.3	2279.5	2330.9	2342.4	2268.1	2102.4	2113.9	2091.0
62.5°	2633.7	2279.5	2136.6	2102.4	2073.8	2119.6	2119.6	2022.4	1879.6	1891.0	1868.2
65°	2239.5	2113.9	1908.1	1902.4	1891.0	1902.4	1856.8	1753.9	1628.3	1576.8	1582.5
67.5°	2033.9	1953.9	1753.9	1702.5	1668.2	1662.5	1576.8	1479.7	1422.6	1376.9	1371.2
70°	1782.5	1719.6	1571.1	1502.5	1468.2	1388.2	1302.5	1239.7	1159.7	1136.9	1159.7
72.5°	1411.1	1405.4	1348.3	1274.0	1199.8	1136.9	1062.6	976.9	902.6	885.5	845.5
75°	976.9	988.3	999.8	988.3	925.5	845.5	759.8	691.3	599.9	548.4	537.1
77.5°	639.8	657.0	674.1	651.3	611.3	537.1	479.9	394.2	325.6	285.7	280.0
80°	468.4	491.3	502.7	485.6	439.9	382.7	319.9	251.4	200.0	165.7	165.7
82.5°	359.9	382.7	394.2	365.7	319.9	274.3	228.5	177.1	137.1	108.6	102.9
85°	125.6	120.0	142.8	148.5	177.1	165.7	137.1	102.9	80.0	57.1	51.4
87.5°	34.3	34.3	40.0	40.0	34.3	28.6	28.6	28.6	22.9	17.2	17.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)