

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: P533324

Luminaire Tested: **GALN-SA8D-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533324
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-730-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 51335 lumens
Efficiency: N/A
Efficacy: 104.1 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

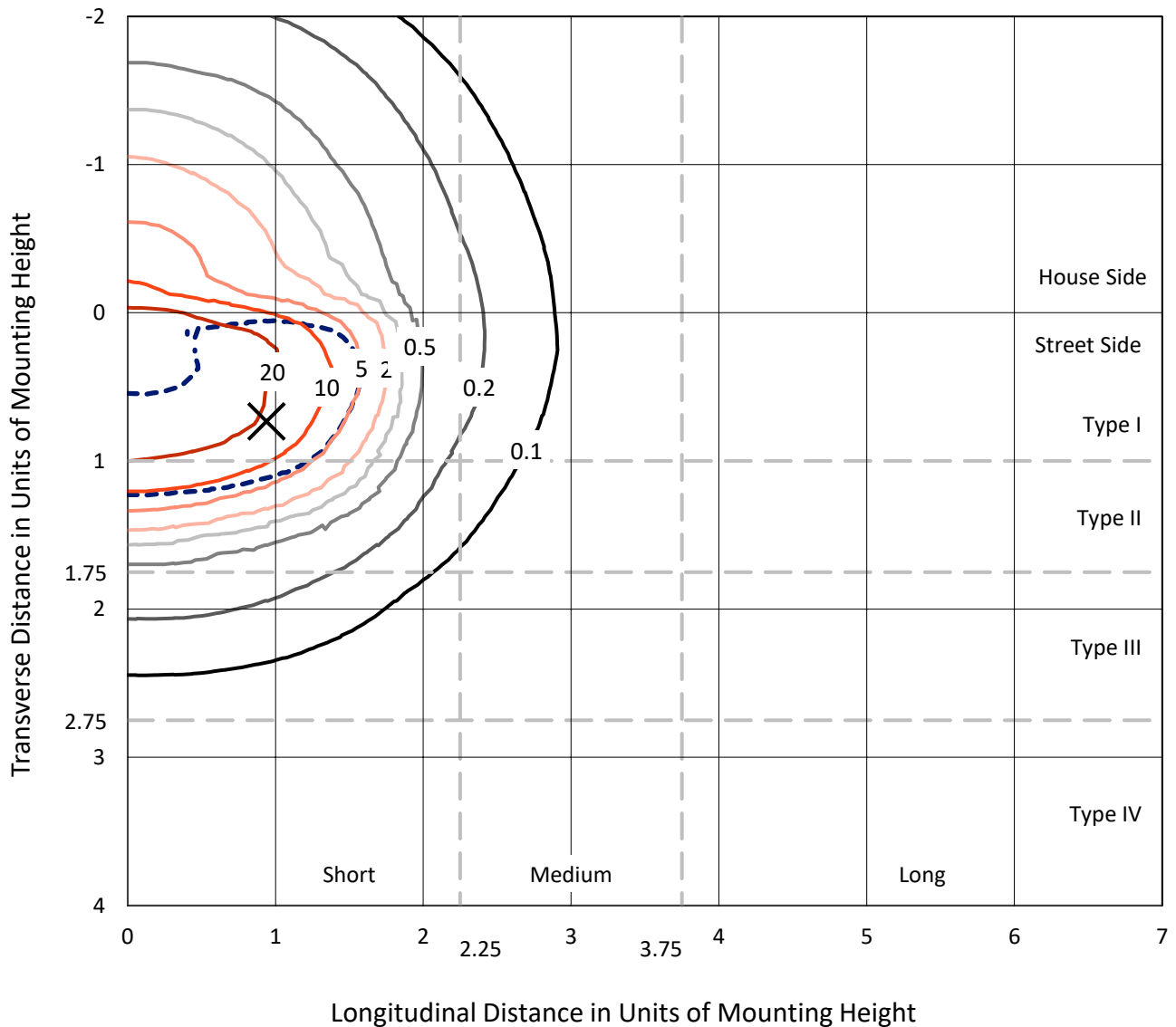
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

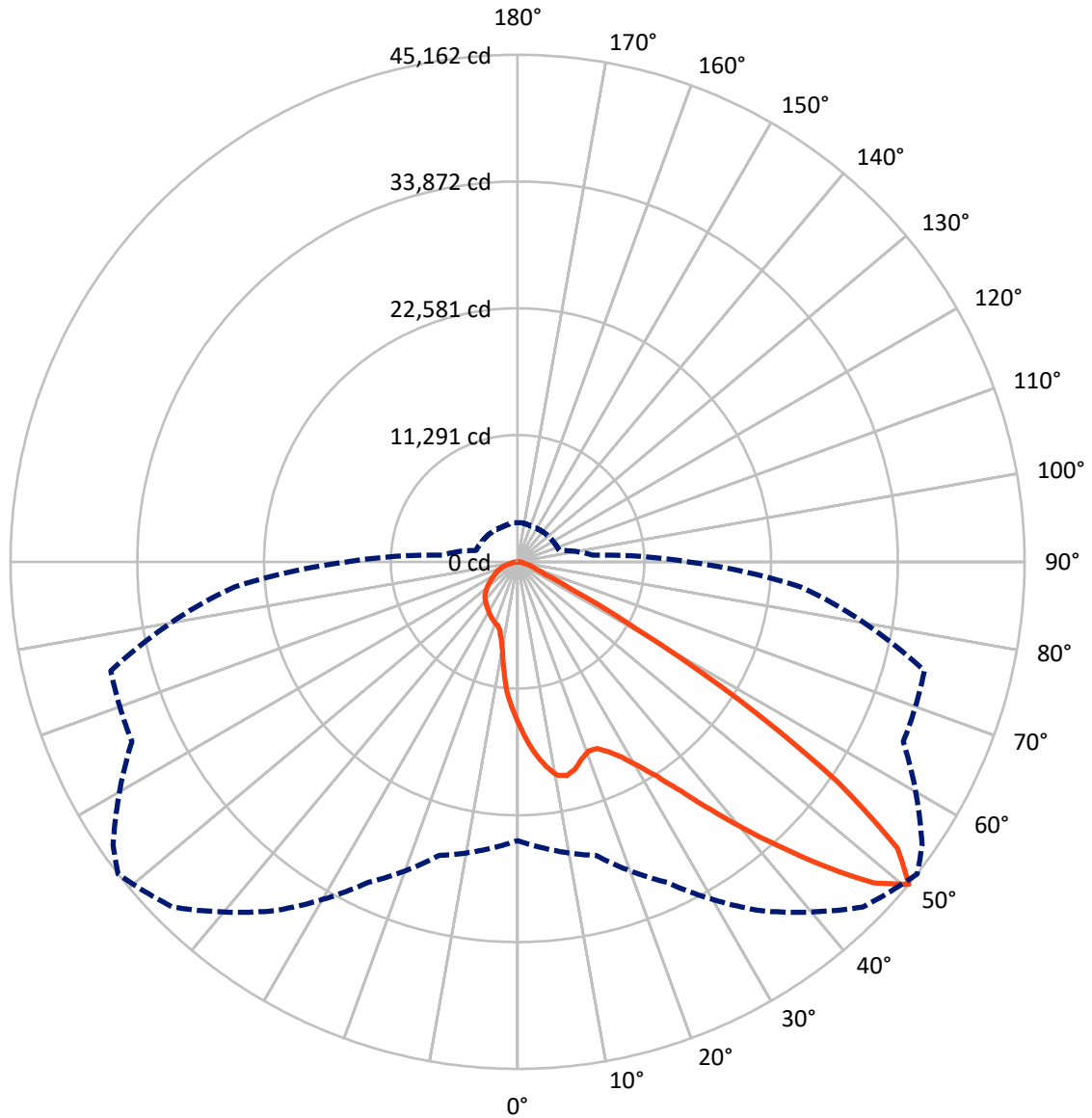
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.6 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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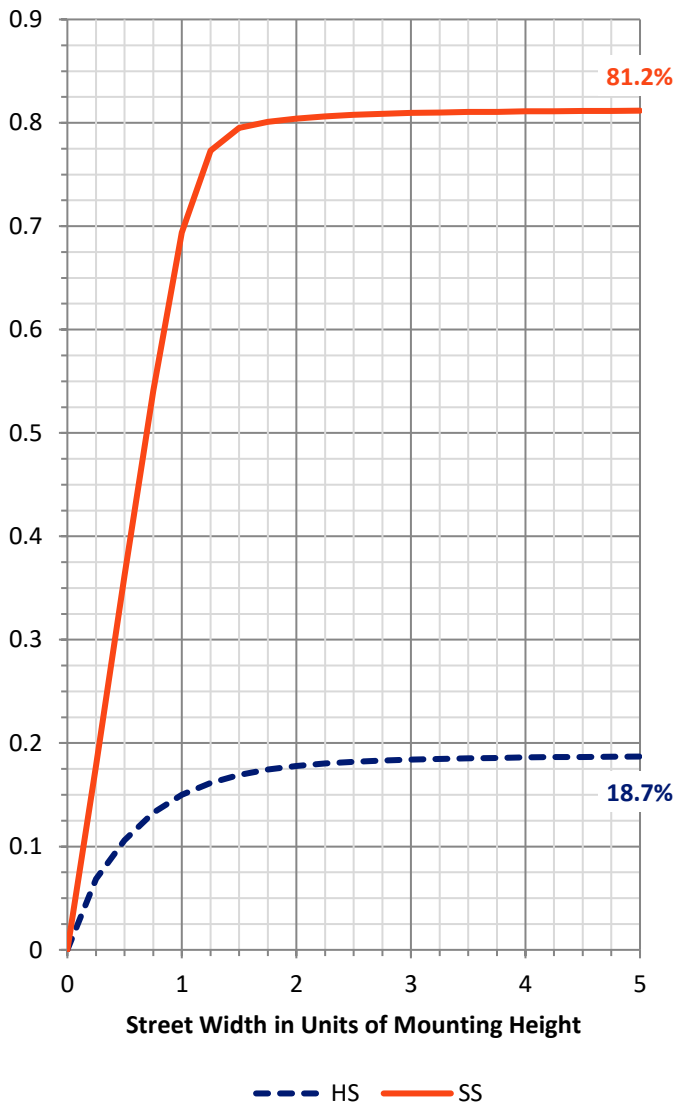
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9649.8	0.0	9649.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	41685.2	0.0	41685.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	51335.0	0.0	51335.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1333.7	2.6
10°-20°	3574.7	7.0
20°-30°	6021.5	11.7
30°-40°	10104.6	19.7
40°-50°	15457.6	30.1
50°-60°	11269.8	22.0
60°-70°	2508.1	4.9
70°-80°	904.6	1.8
80°-90°	160.1	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°	51335.0	100.0
0°-180°	51335.0	100.0

Coefficient of Utilization



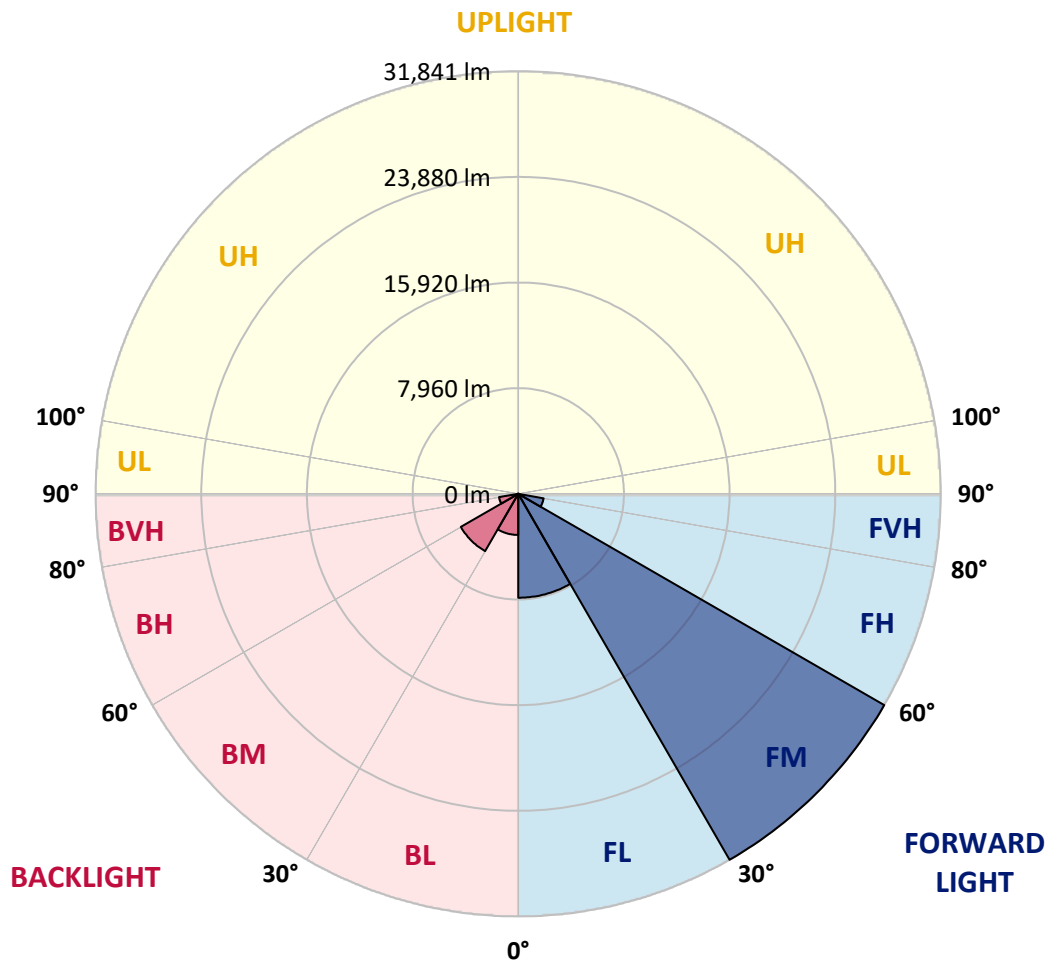
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7830.3	15.3			
FM (30°-60°)	31840.6	62.0			
FH (60°-80°)	1942.6	3.8			G2/5000
FVH (80°-90°)	71.8	0.1			G1/100
BL (0°-30°)	3099.7	6.0	B4/5000		
BM (30°-60°)	4991.5	9.7	B3/5000		
BH (60°-80°)	1470.2	2.9	B3/2500		G3/2500
BVH (80°-90°)	88.4	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°	14470.5	14470.5	14470.5	14470.5	14470.5	14470.5	14470.5	14470.5	14470.5	14470.5	14470.5
2.5°	17037.9	16710.0	16747.2	16512.1	16258.4	16184.2	15924.3	15676.9	15491.3	15095.3	14730.3
5°	18621.7	18522.7	18374.2	18188.6	17996.9	17526.7	17260.6	16951.3	16270.8	15658.3	15052.0
7.5°	18850.6	18832.0	18912.5	18912.5	18980.5	18801.1	18423.7	18207.2	17483.4	16487.3	15361.4
10°	17242.1	17297.8	17687.5	18194.8	18900.1	19388.8	19327.0	19271.3	18479.4	17118.4	15726.4
12.5°	15961.5	15837.7	16066.6	16499.7	17557.6	18739.2	19537.3	19543.5	19339.3	18126.8	15992.4
15°	15237.6	15324.2	15386.1	15590.3	16388.3	17755.6	19159.9	19574.4	20471.5	18838.2	16413.1
17.5°	15701.6	15410.9	15398.5	15448.0	15856.3	16883.3	18460.9	19172.3	21090.2	19753.9	16932.8
20°	16307.9	16301.7	16128.5	16066.6	16060.4	16976.1	18003.0	18968.2	21418.1	20941.7	17458.6
22.5°	17372.0	17372.0	17087.4	16951.3	16660.5	17409.1	18064.9	18720.7	21962.5	21758.3	17712.3
25°	19153.8	18863.0	18374.2	18040.2	17873.1	18139.1	18720.7	19308.4	22438.8	22624.4	18238.1
27.5°	20799.4	20341.6	20100.3	19524.9	19302.2	19147.6	19679.6	20273.5	22995.6	23973.1	18522.7
30°	22667.7	22587.3	22154.3	21411.9	20861.3	20576.7	21065.4	21653.1	24016.4	25352.7	19178.5
32.5°	26008.5	25278.5	24690.8	23781.3	22884.3	22278.0	22760.5	23150.3	25711.6	26794.2	19896.1
35°	29615.3	29380.2	28365.6	26726.2	25352.7	24808.3	25092.9	25383.7	27685.1	28996.7	21102.5
37.5°	33160.2	32838.5	32003.3	30623.7	28953.3	27845.9	28050.1	28390.4	29899.9	31966.2	22574.9
40°	35709.1	35313.2	34892.5	34688.3	33030.3	31514.6	31397.1	31483.7	32894.2	34750.2	24208.2
42.5°	35894.7	36383.5	36513.4	37336.2	36946.4	35702.9	34979.1	34997.7	35752.4	37503.2	25860.0
45°	35505.0	35053.3	36012.3	38258.0	39544.8	40126.4	38907.6	38752.9	37521.8	39099.4	26682.9
47.5°	31415.6	31539.3	33160.2	36711.4	40429.5	43027.9	42743.3	42229.8	38468.4	39043.7	26552.9
50°	24833.1	25581.6	27085.0	31508.4	37954.9	43485.7	45162.3	43974.4	37905.4	37509.4	25229.0
52.5°	16536.8	16846.1	17836.0	23546.2	30518.6	38870.5	42378.3	42650.5	37385.7	35498.8	23552.4
55°	7362.1	7337.3	8729.3	12299.0	19147.6	29578.2	34626.5	36284.5	35387.4	33451.0	21919.2
57.5°	3118.1	3223.2	3792.4	5314.3	9416.0	17848.4	23459.6	24913.5	27214.9	27468.6	16815.2
60°	2109.6	2122.0	2276.7	2660.2	3940.9	8382.9	12305.2	14049.8	15695.4	15584.1	8921.1
62.5°	1658.0	1701.3	1818.9	1973.5	2338.5	3804.8	5506.1	6477.4	6582.6	5537.0	3384.1
65°	1416.7	1422.9	1540.5	1670.4	1831.2	2214.8	2654.1	2703.5	2734.5	2635.5	2487.0
67.5°	1169.3	1181.6	1274.4	1422.9	1571.4	1695.1	1818.9	1880.7	2023.0	2301.4	2264.3
70°	928.0	946.6	1027.0	1150.7	1286.8	1361.1	1515.7	1571.4	1701.3	1917.8	2004.5
72.5°	705.3	711.5	779.5	866.1	989.9	1064.1	1194.0	1255.9	1342.5	1528.1	1608.5
75°	507.3	525.9	575.4	618.7	637.2	686.7	810.4	878.5	1002.2	1082.7	1088.8
77.5°	266.0	278.4	290.8	290.8	352.6	445.4	525.9	563.0	649.6	711.5	680.5
80°	105.2	111.4	142.3	191.8	247.5	321.7	377.4	395.9	470.2	507.3	525.9
82.5°	61.9	68.1	92.8	136.1	179.4	228.9	272.2	290.8	340.3	383.6	395.9
85°	30.9	37.1	55.7	86.6	117.5	142.3	136.1	129.9	129.9	123.7	129.9
87.5°	12.4	12.4	18.6	18.6	18.6	24.7	30.9	30.9	30.9	37.1	37.1
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°	14470.5	14470.5	14470.5	14470.5	14470.5	14470.5	14470.5	14470.5	14470.5	14470.5	14470.5
2.5°	14489.0	14241.6	14012.7	13592.0	13134.2	13004.3	12472.2	12280.4	12144.3	11983.5	11934.0
5°	14563.3	14235.4	13499.2	12651.6	11977.3	11111.2	10542.0	9929.5	9484.1	9372.7	9341.8
7.5°	14717.9	14155.0	12886.7	11606.1	10226.5	9051.0	8154.0	7671.4	7244.5	7219.8	7176.5
10°	14891.2	13913.7	12218.6	10207.9	8444.7	7355.9	6817.6	6607.3	6502.1	6477.4	6465.0
12.5°	15033.5	13864.2	11470.0	8846.9	7182.7	6526.9	6366.0	6347.5	6390.8	6403.1	6427.9
15°	15095.3	13666.2	10566.7	7628.1	6397.0	6155.7	6223.7	6298.0	6328.9	6409.3	6347.5
17.5°	15212.9	13412.6	9453.1	6663.0	5957.7	6001.0	6118.6	6205.2	6254.7	6310.3	6229.9
20°	15274.7	13183.7	8407.6	6087.6	5803.0	5883.5	6044.3	6112.4	6174.2	6199.0	6106.2
22.5°	15219.1	12713.5	7485.8	5623.6	5654.6	5759.7	5902.0	5976.3	5939.1	5840.2	5784.5
25°	15070.6	12051.5	6526.9	5326.7	5444.2	5629.8	5741.2	5685.5	5617.4	5561.8	5543.2
27.5°	15064.4	11241.1	5834.0	5054.5	5264.8	5518.5	5481.3	5431.8	5462.8	5419.5	5370.0
30°	15095.3	10455.4	5264.8	4899.8	5134.9	5258.6	5301.9	5252.4	5289.6	5209.1	5233.9
32.5°	14934.5	9688.2	4893.6	4720.4	4980.2	4974.0	5116.3	5153.4	5066.8	4899.8	4924.5
35°	15002.5	9069.6	4578.1	4640.0	4807.0	4807.0	4918.4	4875.1	4646.1	4547.2	4571.9
37.5°	15472.7	8463.3	4423.4	4528.6	4640.0	4689.5	4652.3	4466.7	4411.1	4411.1	4423.4
40°	15918.2	7943.6	4330.6	4503.9	4485.3	4516.2	4244.0	4262.6	4262.6	4268.8	4237.8
42.5°	16314.1	7591.0	4256.4	4355.4	4386.3	4225.5	4058.4	4039.9	4083.2	4077.0	4052.2
45°	16456.4	7300.2	4151.2	4188.3	4213.1	3947.1	3866.6	3829.5	3879.0	3897.6	3922.3
47.5°	15912.0	7058.9	4033.7	3959.4	3909.9	3736.7	3631.5	3563.5	3625.4	3730.5	3755.3
50°	15212.9	6743.4	3848.1	3705.8	3600.6	3526.4	3452.1	3384.1	3427.4	3501.6	3483.1
52.5°	14179.7	6248.5	3613.0	3464.5	3285.1	3303.7	3235.6	3198.5	3223.2	3223.2	3204.7
55°	12707.3	5134.9	3217.0	3111.9	2963.4	3012.9	3025.3	2975.8	2926.3	2969.6	2932.5
57.5°	8673.6	3625.4	2870.6	2870.6	2722.1	2790.2	2784.0	2666.4	2548.9	2561.3	2536.5
60°	5017.3	2889.1	2647.9	2623.1	2468.5	2524.1	2536.5	2456.1	2276.7	2289.0	2264.3
62.5°	2852.0	2468.5	2313.8	2276.7	2245.7	2295.2	2295.2	2190.1	2035.4	2047.8	2023.0
65°	2425.2	2289.0	2066.3	2060.1	2047.8	2060.1	2010.6	1899.3	1763.2	1707.5	1713.7
67.5°	2202.4	2115.8	1899.3	1843.6	1806.5	1800.3	1707.5	1602.3	1540.5	1491.0	1484.8
70°	1930.2	1862.2	1701.3	1627.1	1590.0	1503.3	1410.5	1342.5	1255.9	1231.1	1255.9
72.5°	1528.1	1521.9	1460.0	1379.6	1299.2	1231.1	1150.7	1057.9	977.5	958.9	915.6
75°	1057.9	1070.3	1082.7	1070.3	1002.2	915.6	822.8	748.6	649.6	593.9	581.5
77.5°	692.9	711.5	730.0	705.3	662.0	581.5	519.7	426.9	352.6	309.3	303.1
80°	507.3	532.0	544.4	525.9	476.4	414.5	346.5	272.2	216.5	179.4	179.4
82.5°	389.8	414.5	426.9	395.9	346.5	297.0	247.5	191.8	148.5	117.5	111.4
85°	136.1	129.9	154.7	160.9	191.8	179.4	148.5	111.4	86.6	61.9	55.7
87.5°	37.1	37.1	43.3	43.3	37.1	30.9	30.9	30.9	24.7	18.6	18.6
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)