

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: P647622

Luminaire Tested: **GALN-SA8D-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-835-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42981.2 lumens
Efficiency: N/A
Efficacy: 87.2 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

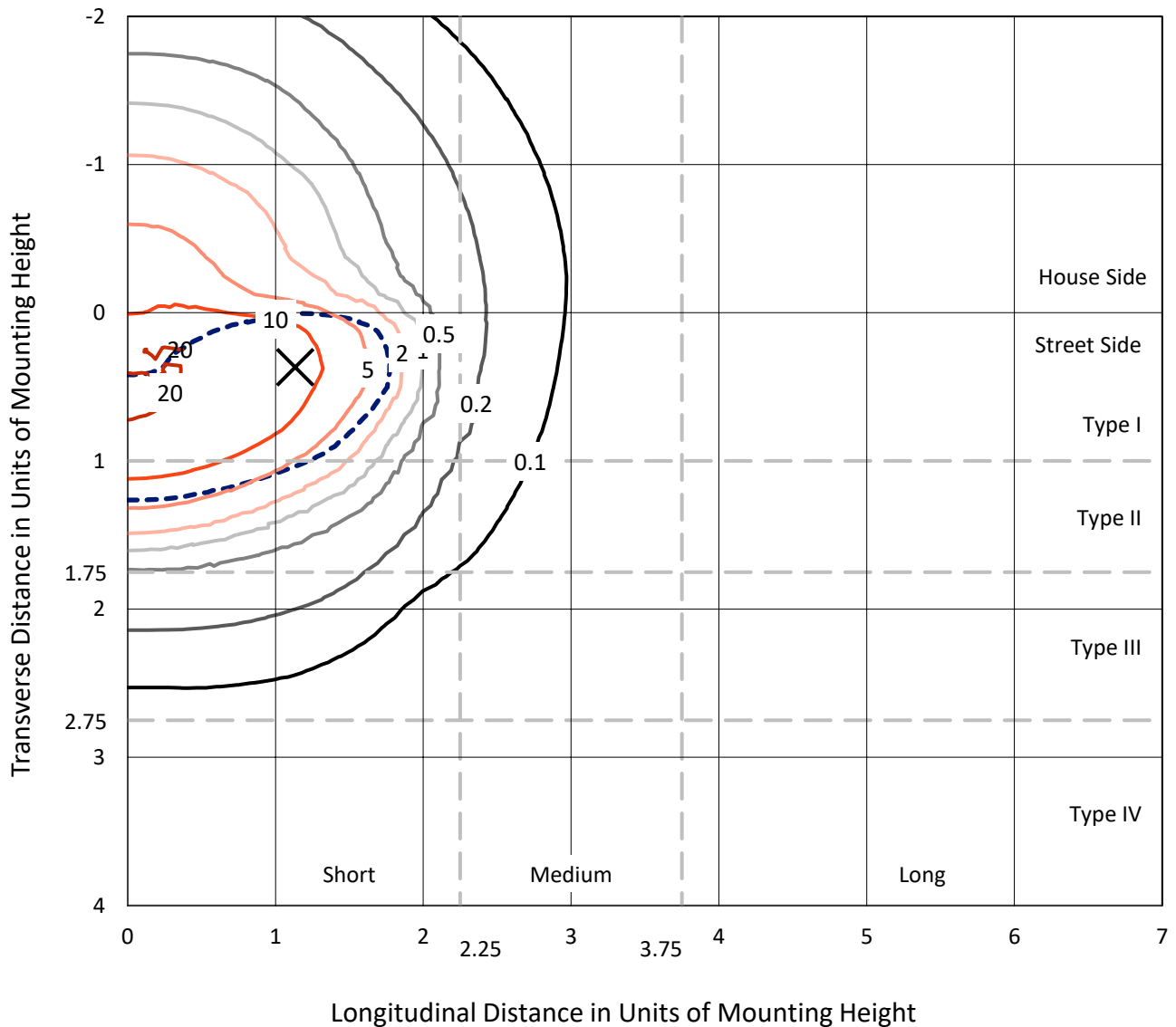
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

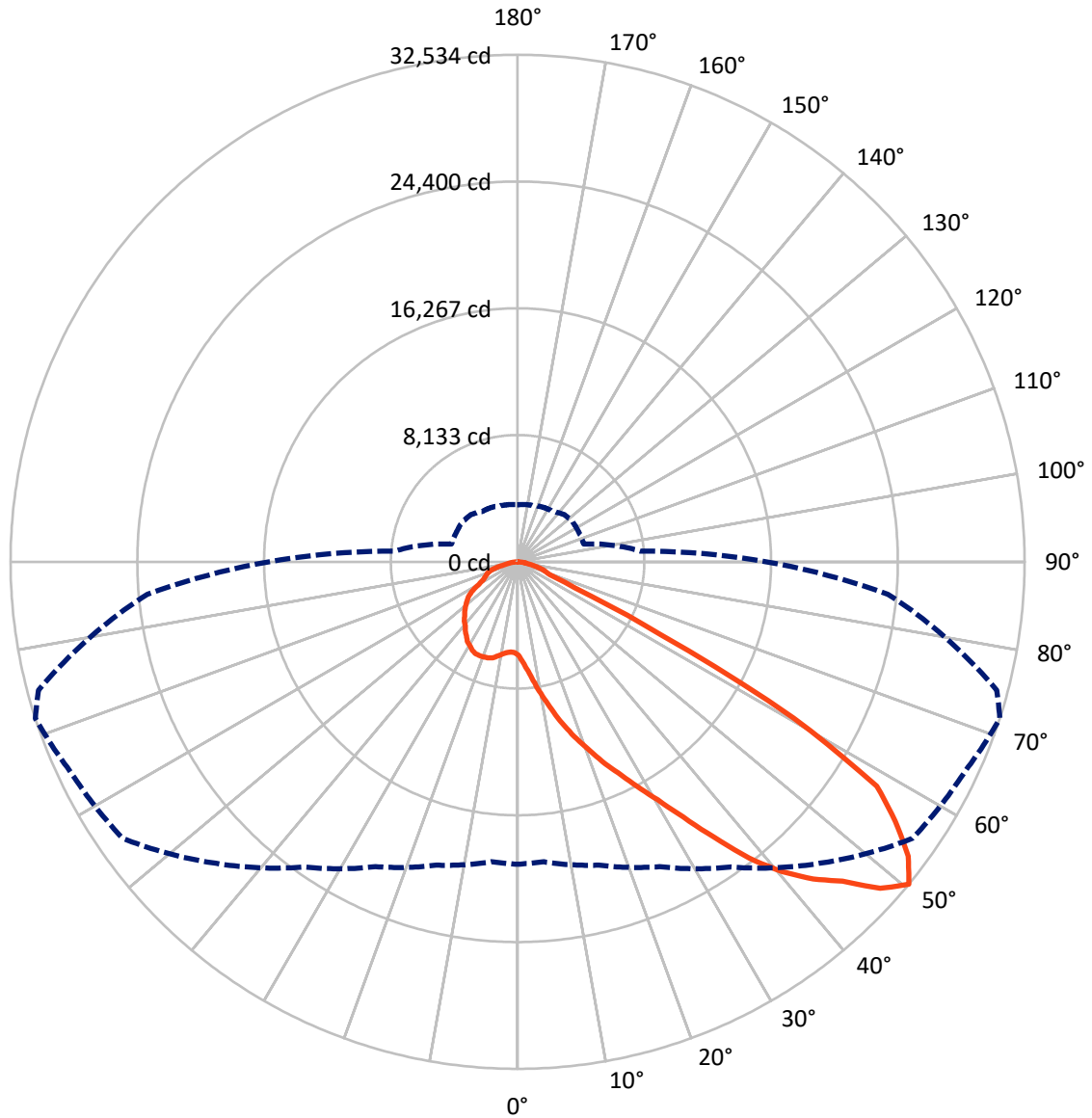
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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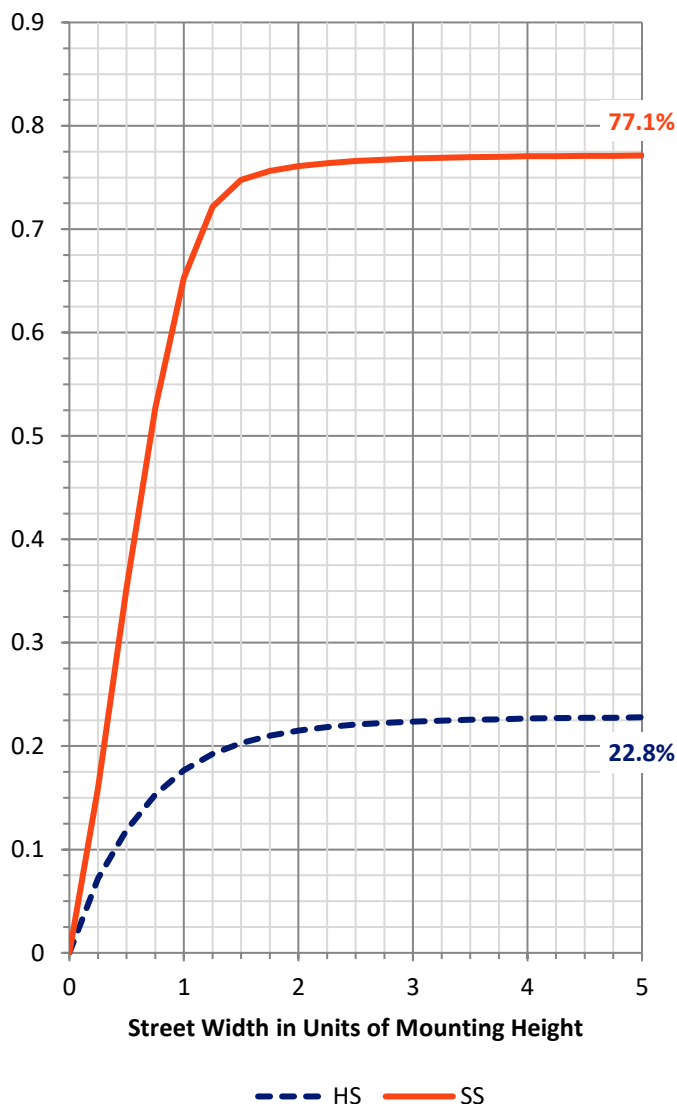
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9847.3	0.0	9847.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	33134.0	0.0	33134.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	42981.2	0.0	42981.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	703.8	1.6
10°-20°	2631.0	6.1
20°-30°	5101.4	11.9
30°-40°	8451.2	19.7
40°-50°	11825.1	27.5
50°-60°	9975.9	23.2
60°-70°	3040.7	7.1
70°-80°	1066.8	2.5
80°-90°	185.5	0.4
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°	42981.2	100.0
0°-180°	42981.2	100.0

Coefficient of Utilization

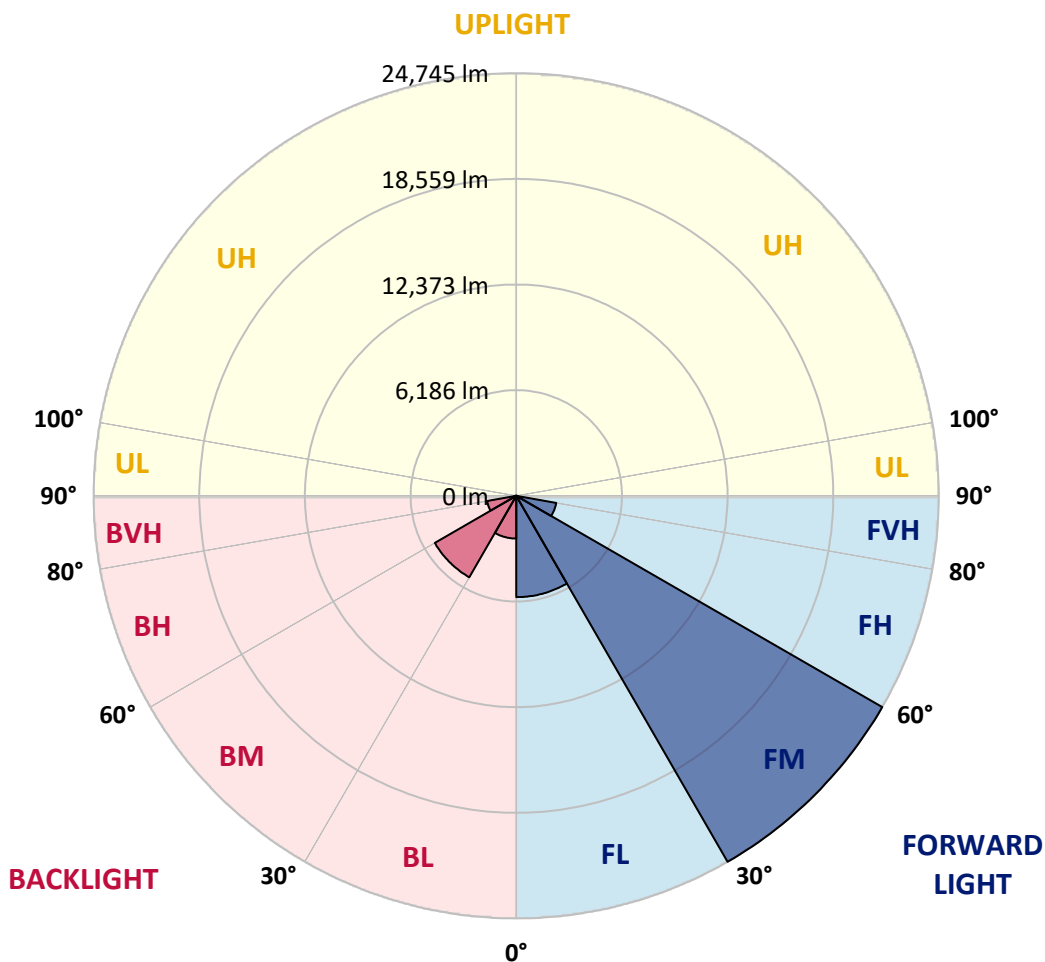


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5933.0	13.8			
FM (30°-60°)	24745.4	57.6			
FH (60°-80°)	2372.5	5.5			G2/5000
FVH (80°-90°)	83.1	0.2			G1/100
BL (0°-30°)	2503.2	5.8	B4/5000		
BM (30°-60°)	5506.7	12.8	B4/8500		
BH (60°-80°)	1734.9	4.0	B3/2500		G3/2500
BVH (80°-90°)	102.4	0.2			G2/225
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°	55°	65°	72°	75°	85°
0°	5983.4	5983.4	5983.4	5983.4	5983.4	5983.4	5983.4	5983.4	5983.4	5983.4	5983.4
2.5°	7696.0	7648.0	7504.4	7456.6	7286.4	6977.9	6871.5	6557.8	6424.8	6302.4	6158.8
5°	9732.9	9509.5	9493.6	9222.3	8828.8	8600.1	7919.3	7461.9	7041.8	6829.0	6435.4
7.5°	11030.7	11036.0	11036.0	10812.6	10498.8	9919.0	9307.4	8483.1	7850.1	7536.4	6866.2
10°	12264.5	12158.2	12099.7	12078.4	11865.7	11301.9	10647.7	9626.5	8759.7	8392.7	7190.7
12.5°	13136.8	13046.3	13179.3	13110.2	12956.0	12589.0	11972.0	10807.3	9722.3	9227.7	7711.8
15°	13551.6	13615.4	13721.8	13913.3	13844.1	13705.9	13025.1	12019.9	10759.4	10200.9	8174.6
17.5°	14189.8	14014.4	14142.0	14381.3	14572.8	14509.0	14120.7	12897.4	11785.9	11099.8	8796.8
20°	14636.6	14535.5	14599.3	14876.0	15019.5	15381.2	15179.1	14046.2	12769.8	12046.5	9530.8
22.5°	15913.1	15764.1	15556.7	15599.2	15652.5	15907.7	15955.6	15306.7	13913.3	13147.4	10227.5
25°	17487.4	17349.1	17104.4	16854.5	16700.2	16652.3	16817.2	16296.0	15008.9	14216.5	10977.4
27.5°	19221.2	18987.2	18833.0	18317.0	17902.2	17838.4	17758.6	17476.7	16306.6	15450.3	11823.1
30°	20907.2	20721.0	20513.6	19689.2	19258.4	19189.3	18795.7	18875.5	17716.1	16764.0	12780.4
32.5°	22183.6	22199.5	21726.2	21104.0	20699.7	20332.8	20189.2	20417.8	19524.3	18758.5	13849.5
35°	23215.4	23263.2	22811.2	22247.5	21811.3	22066.6	22002.8	22109.2	21683.7	20747.6	15094.0
37.5°	24220.6	23981.3	23497.3	23226.1	22997.3	23417.5	23960.0	24050.4	24130.2	23029.3	16540.6
40°	24385.5	24406.7	24124.9	24316.4	24029.2	24662.1	25922.5	25805.6	26130.0	25167.3	18109.6
42.5°	24151.5	24199.3	24311.1	24582.3	25273.7	26034.2	27906.4	27427.7	27821.2	26965.0	19636.0
45°	23768.5	23571.7	23710.0	24741.9	25938.5	27629.8	29719.9	29347.7	29220.0	28502.1	21455.0
47.5°	21939.0	22141.0	22571.9	23843.0	25640.7	27906.4	31007.0	30922.0	31304.9	30799.6	23109.1
50°	19402.0	19322.2	20151.9	21582.6	23901.5	27363.9	30937.9	31709.1	32533.5	31831.5	23848.3
52.5°	14530.2	14955.7	15668.4	17444.8	20752.9	24406.7	29427.5	30714.5	31384.7	31235.7	23252.7
55°	9185.1	9312.8	9743.6	11855.0	14833.4	19588.2	25225.8	28209.5	29406.2	29964.6	22704.8
57.5°	4462.2	4223.0	4749.4	6446.0	8568.1	13174.0	19455.2	24571.6	27172.4	28182.9	21513.5
60°	2329.5	2419.9	2627.4	3233.6	4430.4	6839.7	12126.2	16375.7	20348.7	21901.8	16306.6
62.5°	1930.6	1962.5	2100.8	2404.0	2946.5	3935.7	6190.8	7983.2	10376.5	11775.2	9275.5
65°	1638.1	1654.1	1803.0	2005.1	2350.8	2771.0	3185.8	3334.7	4036.8	4143.2	3297.5
67.5°	1366.9	1382.9	1542.4	1733.9	1957.2	2068.9	2175.3	2164.7	2244.4	2212.5	2207.2
70°	1053.1	1069.0	1233.9	1436.0	1547.7	1483.9	1813.6	1888.0	1920.0	1946.6	1989.1
72.5°	760.5	792.5	920.1	1063.7	1005.2	1154.1	1494.5	1606.2	1648.8	1664.7	1717.9
75°	553.1	563.8	595.7	553.1	638.2	803.1	1053.1	1191.3	1244.5	1260.5	1340.3
77.5°	244.7	249.9	255.3	319.2	409.5	499.9	627.6	739.3	813.8	835.0	856.3
80°	127.6	133.0	164.9	218.1	292.5	367.0	457.4	521.2	569.1	574.4	595.7
82.5°	79.8	85.1	117.0	154.3	207.4	271.2	335.0	388.3	425.5	430.8	436.1
85°	37.2	47.8	69.1	95.8	138.3	175.5	180.8	154.3	164.9	170.2	159.6
87.5°	10.6	16.0	21.3	16.0	21.3	21.3	26.6	31.9	31.9	31.9	37.2
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°	5983.4	5983.4	5983.4	5983.4	5983.4	5983.4	5983.4	5983.4	5983.4	5983.4	5983.4
2.5°	6079.1	6031.2	5845.1	5776.0	5595.1	5627.0	5531.3	5525.9	5504.6	5499.4	5494.1
5°	6228.0	6079.1	5855.7	5685.5	5584.4	5573.9	5504.6	5504.6	5525.9	5541.9	5504.6
7.5°	6472.7	6302.4	5924.9	5765.3	5674.9	5658.9	5611.1	5573.9	5621.7	5605.7	5563.2
10°	6754.5	6456.7	6057.8	5919.6	5770.6	5733.4	5733.4	5749.3	5669.5	5696.2	5653.6
12.5°	7068.3	6669.4	6228.0	6068.5	5892.9	5871.6	5861.0	5744.0	5786.6	5765.3	5658.9
15°	7467.2	6914.1	6446.0	6174.8	6025.9	5930.1	5791.9	5770.6	5744.0	5690.8	5643.0
17.5°	7898.0	7180.0	6547.1	6206.8	5983.4	5914.2	5807.8	5696.2	5616.4	5627.0	5589.8
20°	8265.0	7424.6	6584.3	6238.6	5951.4	5818.5	5653.6	5584.4	5499.4	5494.1	5488.8
22.5°	8701.1	7754.4	6637.6	6153.5	5855.7	5717.4	5605.7	5483.4	5424.9	5350.5	5387.7
25°	9222.3	7882.1	6648.1	6105.7	5786.6	5541.9	5483.4	5350.5	5329.2	5222.8	5244.1
27.5°	9600.0	7951.2	6563.1	5956.8	5627.0	5440.8	5334.5	5238.7	5201.5	5121.8	5100.5
30°	10105.2	8057.6	6382.2	5770.6	5467.5	5260.0	5196.2	5174.9	5068.6	4983.5	4972.8
32.5°	10679.7	8126.8	6265.3	5579.1	5302.6	5143.1	5174.9	5073.9	4940.9	4866.4	4845.2
35°	11137.0	8153.3	5972.7	5361.1	5190.9	5089.8	5052.6	5031.3	4839.9	4770.7	4717.6
37.5°	11833.7	8094.8	5728.0	5206.9	5068.6	5031.3	4999.5	4855.9	4637.8	4536.7	4462.2
40°	12647.5	8078.8	5414.3	4988.8	4951.5	4994.1	4898.4	4675.0	4371.8	4260.1	4207.0
42.5°	13429.3	8190.6	5217.5	4871.7	4823.9	4839.9	4706.9	4371.8	4223.0	4159.1	4074.0
45°	14737.6	8424.5	4893.0	4691.0	4669.7	4659.0	4499.5	4148.5	4063.4	3983.6	3967.6
47.5°	15918.4	8270.4	4685.6	4504.8	4526.1	4467.6	4127.2	4015.5	3919.8	3840.0	3813.4
50°	15987.5	7903.4	4393.1	4361.2	4366.6	4265.5	3941.0	3866.6	3744.2	3691.1	3653.9
52.5°	15625.9	7302.3	4121.9	4132.5	4148.5	3983.6	3712.4	3659.1	3558.1	3483.6	3462.3
55°	14610.0	6366.3	3856.0	3898.5	3941.0	3627.2	3542.1	3409.2	3329.4	3223.1	3228.4
57.5°	12870.9	5127.1	3483.6	3552.8	3643.2	3297.5	3233.6	3068.8	2951.8	2866.7	2856.1
60°	8626.7	3648.5	2925.2	2951.8	3153.9	3015.6	3010.3	2845.4	2685.8	2611.4	2568.9
62.5°	5089.8	2786.9	2526.3	2499.7	2494.4	2574.2	2707.1	2648.7	2441.2	2297.6	2340.2
65°	2664.5	2409.3	2350.8	2260.4	2207.2	2185.9	2287.0	2313.5	2175.3	2021.1	2010.4
67.5°	2239.1	2239.1	2191.2	2159.4	2084.9	1994.5	1930.6	1845.5	1824.2	1781.7	1728.6
70°	2037.0	2090.2	2074.2	1999.8	1936.0	1834.9	1670.0	1531.7	1398.8	1350.9	1382.9
72.5°	1776.4	1829.6	1829.6	1792.4	1707.3	1553.0	1393.4	1233.9	1122.2	1037.1	1026.5
75°	1366.9	1393.4	1457.2	1414.7	1303.1	1207.3	1042.4	877.6	771.2	691.4	675.4
77.5°	872.3	914.8	914.8	909.5	829.7	739.3	632.9	515.9	436.1	377.6	361.7
80°	579.7	606.3	627.6	606.3	553.1	484.0	404.2	324.4	265.9	218.1	207.4
82.5°	425.5	457.4	473.3	452.1	398.9	345.7	287.2	228.7	170.2	133.0	122.3
85°	164.9	170.2	191.4	228.7	223.4	218.1	175.5	127.6	95.8	69.1	63.8
87.5°	42.5	37.2	42.5	42.5	37.2	31.9	31.9	31.9	31.9	16.0	21.3
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)