

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: P531466

Luminaire Tested: **GALN-SA6D-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531466
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-SA6D-730-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 36712 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

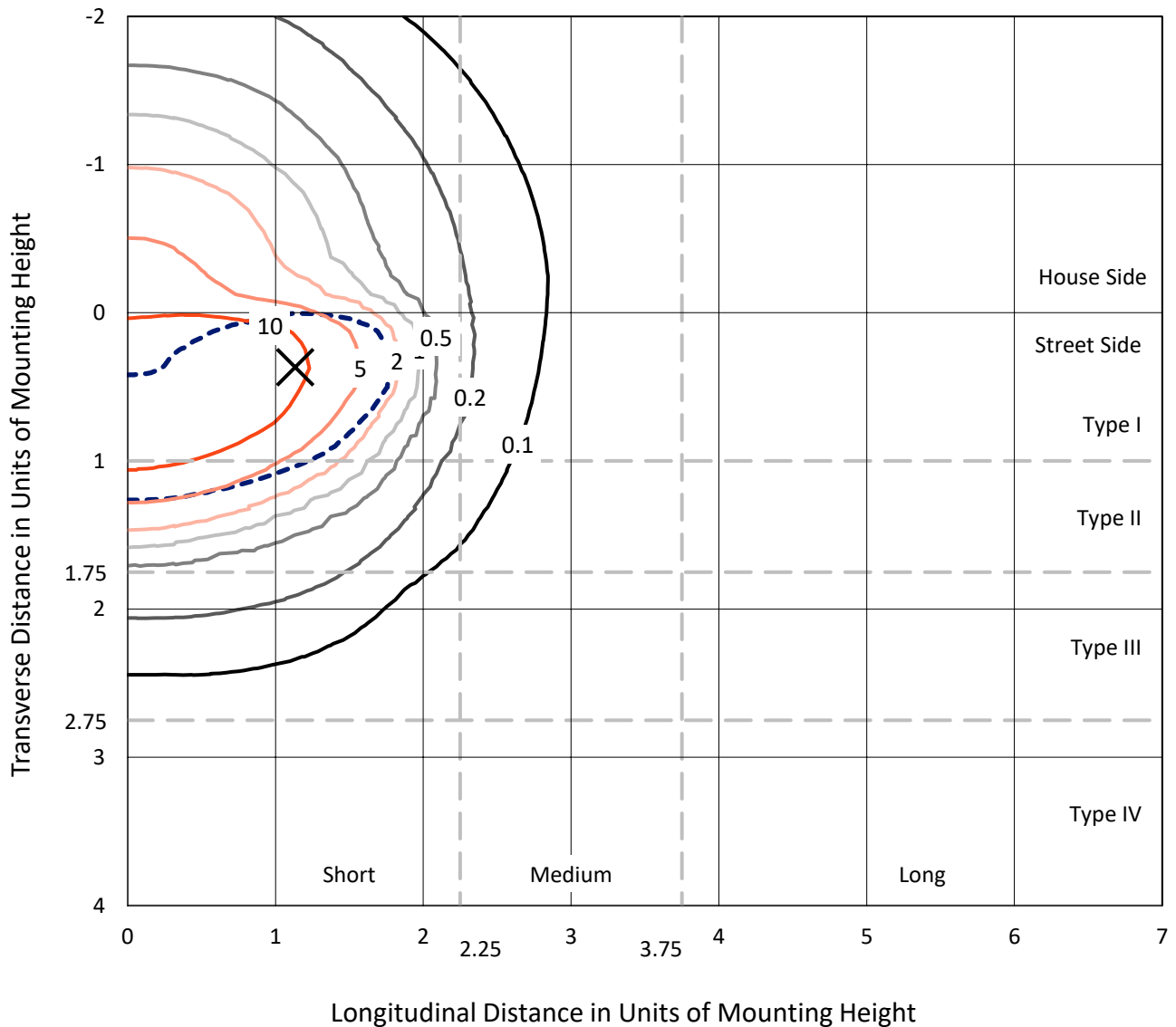
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

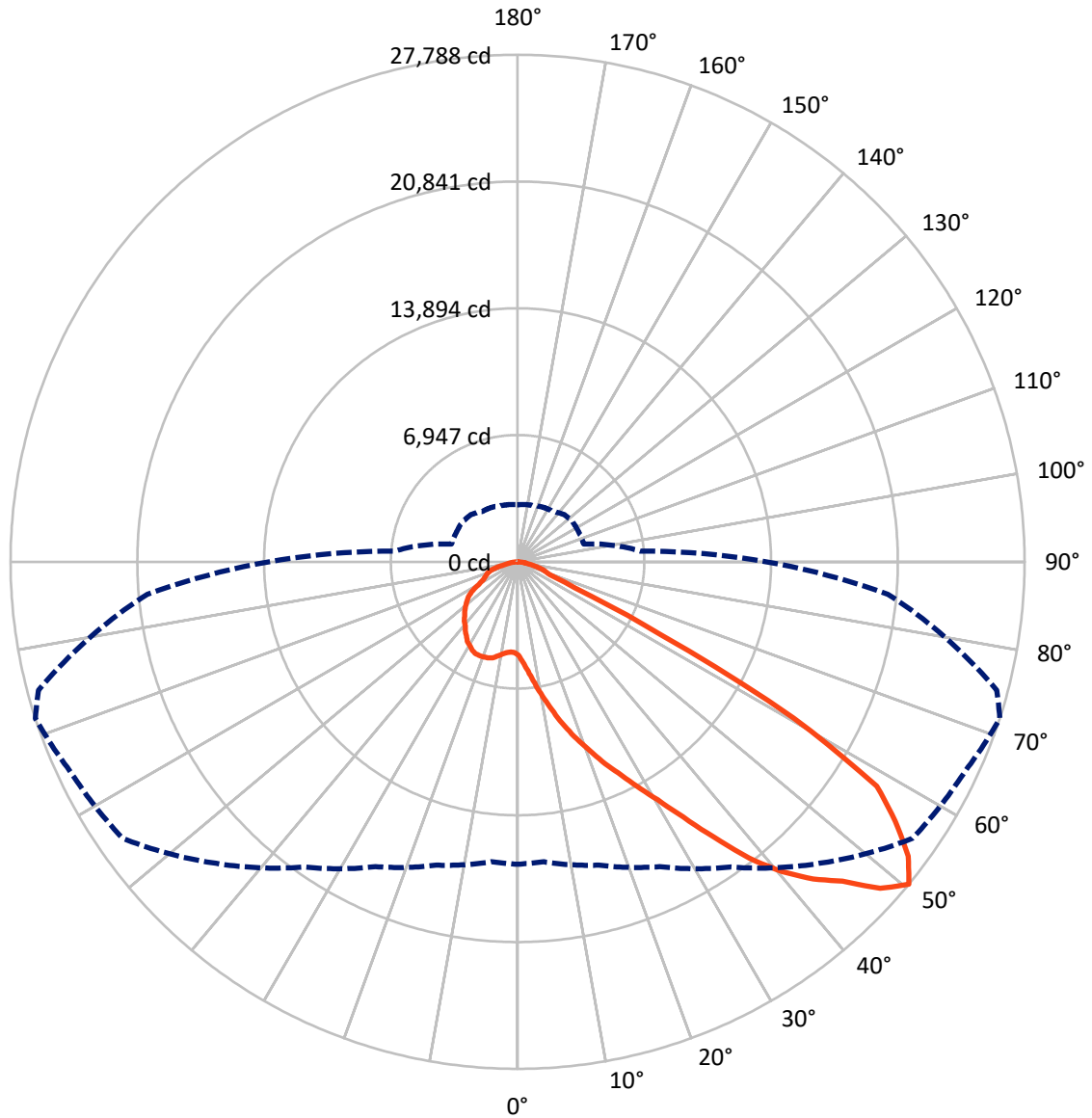
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 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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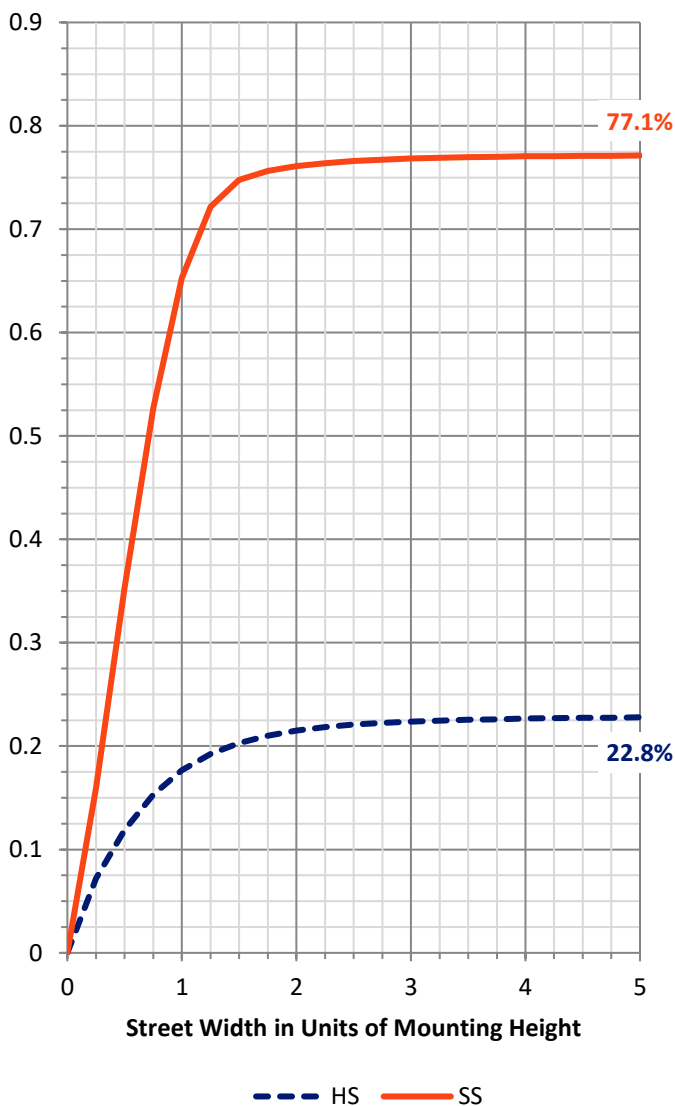
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8410.9	0.0	8410.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	28301.1	0.0	28301.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	36712.0	0.0	36712.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	601.1	1.6
10°-20°	2247.3	6.1
20°-30°	4357.3	11.9
30°-40°	7218.5	19.7
40°-50°	10100.3	27.5
50°-60°	8520.9	23.2
60°-70°	2597.1	7.1
70°-80°	911.2	2.5
80°-90°	158.4	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°	36712.0	100.0
0°-180°	36712.0	100.0

Coefficient of Utilization



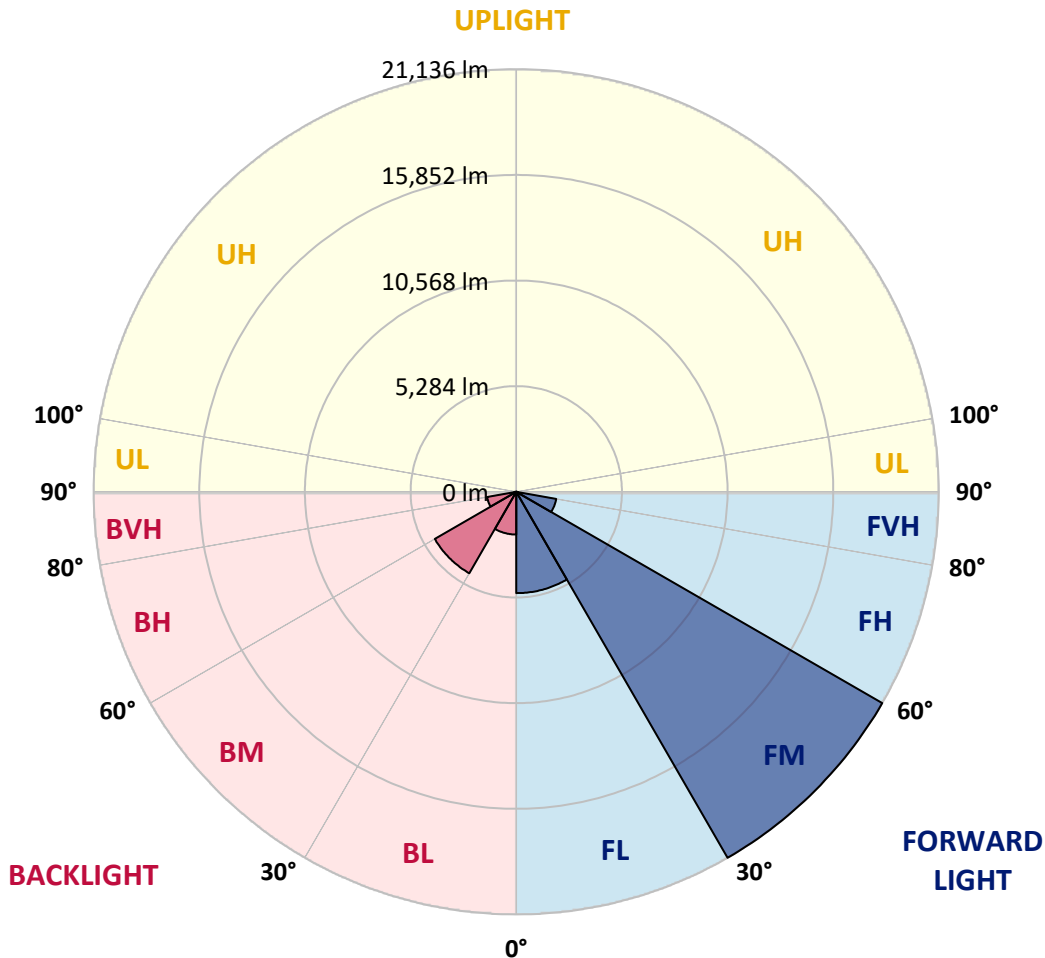
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5067.6	13.8			
FM (30°-60°)	21136.1	57.6			
FH (60°-80°)	2026.4	5.5			G2/5000
FVH (80°-90°)	71.0	0.2			G1/100
BL (0°-30°)	2138.1	5.8	B3/2500		
BM (30°-60°)	4703.5	12.8	B3/5000		
BH (60°-80°)	1481.9	4.0	B3/2500		G3/2500
BVH (80°-90°)	87.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5110.6	5110.6	5110.6	5110.6	5110.6	5110.6	5110.6	5110.6	5110.6	5110.6	5110.6
2.5°	6573.4	6532.5	6409.9	6369.0	6223.6	5960.1	5869.3	5601.2	5487.7	5383.2	5260.5
5°	8313.3	8122.5	8108.9	7877.2	7541.0	7345.7	6764.2	6373.5	6014.6	5832.9	5496.8
7.5°	9421.7	9426.3	9426.3	9235.5	8967.4	8472.3	7949.9	7245.7	6705.1	6437.1	5864.7
10°	10475.6	10384.8	10334.8	10316.6	10134.9	9653.4	9094.6	8222.4	7482.0	7168.5	6141.8
12.5°	11220.7	11143.4	11257.0	11197.9	11066.2	10752.8	10225.8	9230.9	8304.2	7881.7	6587.0
15°	11575.0	11629.5	11720.4	11883.9	11824.8	11706.7	11125.3	10266.7	9190.0	8713.0	6982.2
17.5°	12120.1	11970.2	12079.2	12283.7	12447.2	12392.7	12061.1	11016.2	10066.8	9480.8	7513.8
20°	12501.7	12415.4	12469.9	12706.1	12828.8	13137.7	12965.1	11997.5	10907.2	10289.4	8140.7
22.5°	13592.0	13464.8	13287.6	13324.0	13369.4	13587.4	13628.3	13074.1	11883.9	11229.7	8735.8
25°	14936.6	14818.5	14609.6	14396.1	14264.3	14223.4	14364.3	13919.1	12819.7	12142.8	9376.3
27.5°	16417.6	16217.7	16086.0	15645.3	15291.0	15236.5	15168.3	14927.6	13928.2	13196.8	10098.6
30°	17857.7	17698.7	17521.5	16817.4	16449.4	16390.3	16054.2	16122.3	15132.0	14318.8	10916.3
32.5°	18947.9	18961.5	18557.2	18025.7	17680.5	17367.0	17244.4	17439.7	16676.5	16022.4	11829.4
35°	19829.2	19870.1	19484.0	19002.4	18629.9	18848.0	18793.5	18884.3	18520.9	17721.4	12892.4
37.5°	20687.8	20483.4	20070.0	19838.3	19643.0	20001.8	20465.2	20542.4	20610.6	19670.2	14128.0
40°	20828.6	20846.8	20606.0	20769.6	20524.3	21064.9	22141.5	22041.6	22318.7	21496.4	15468.2
42.5°	20628.7	20669.6	20765.0	20996.7	21587.3	22236.9	23835.9	23427.1	23763.3	23031.9	16771.9
45°	20301.7	20133.6	20251.7	21133.0	22155.1	23599.7	25385.0	25067.0	24958.0	24344.7	18325.6
47.5°	18739.0	18911.6	19279.5	20365.3	21900.7	23835.9	26484.4	26411.7	26738.8	26307.2	19738.4
50°	16572.0	16503.9	17212.6	18434.6	20415.2	23372.6	26425.3	27084.0	27788.2	27188.5	20369.8
52.5°	12410.9	12774.3	13383.0	14900.3	17725.9	20846.8	25135.2	26234.5	26806.9	26679.7	19861.0
55°	7845.4	7954.4	8322.4	10125.8	12669.8	16731.0	21546.4	24094.9	25117.0	25594.0	19393.1
57.5°	3811.4	3607.0	4056.7	5505.8	7318.4	11252.5	16617.5	20987.6	23209.0	24072.2	18375.5
60°	1989.7	2067.0	2244.1	2762.0	3784.1	5842.0	10357.5	13987.2	17380.7	18707.2	13928.2
62.5°	1649.0	1676.3	1794.4	2053.3	2516.7	3361.7	5287.8	6818.7	8863.0	10057.7	7922.6
65°	1399.2	1412.8	1540.0	1712.6	2007.9	2366.8	2721.1	2848.3	3448.0	3538.8	2816.5
67.5°	1167.5	1181.1	1317.4	1480.9	1671.7	1767.1	1858.0	1848.9	1917.1	1889.8	1885.3
70°	899.5	913.1	1053.9	1226.5	1321.9	1267.4	1549.1	1612.7	1639.9	1662.7	1699.0
72.5°	649.6	676.9	785.9	908.6	858.6	985.8	1276.5	1371.9	1408.3	1421.9	1467.3
75°	472.4	481.5	508.8	472.4	545.1	686.0	899.5	1017.6	1063.0	1076.6	1144.8
77.5°	209.0	213.5	218.1	272.6	349.8	427.0	536.0	631.4	695.0	713.2	731.4
80°	109.0	113.6	140.8	186.3	249.9	313.5	390.7	445.2	486.1	490.6	508.8
82.5°	68.1	72.7	99.9	131.7	177.2	231.7	286.2	331.6	363.4	368.0	372.5
85°	31.8	40.9	59.1	81.8	118.1	149.9	154.5	131.7	140.8	145.4	136.3
87.5°	9.1	13.6	18.2	13.6	18.2	18.2	22.7	27.3	27.3	27.3	31.8
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°	5110.6	5110.6	5110.6	5110.6	5110.6	5110.6	5110.6	5110.6	5110.6	5110.6	5110.6
2.5°	5192.4	5151.5	4992.5	4933.5	4779.0	4806.3	4724.5	4719.9	4701.8	4697.2	4692.7
5°	5319.6	5192.4	5001.6	4856.2	4769.9	4760.8	4701.8	4701.8	4719.9	4733.6	4701.8
7.5°	5528.6	5383.2	5060.7	4924.4	4847.1	4833.5	4792.6	4760.8	4801.7	4788.1	4751.7
10°	5769.3	5514.9	5174.2	5056.1	4928.9	4897.1	4897.1	4910.7	4842.6	4865.3	4829.0
12.5°	6037.3	5696.6	5319.6	5183.3	5033.4	5015.2	5006.1	4906.2	4942.5	4924.4	4833.5
15°	6378.1	5905.6	5505.8	5274.2	5147.0	5065.2	4947.1	4928.9	4906.2	4860.8	4819.9
17.5°	6746.0	6132.7	5592.2	5301.4	5110.6	5051.6	4960.7	4865.3	4797.2	4806.3	4774.5
20°	7059.5	6341.7	5624.0	5328.7	5083.4	4969.8	4829.0	4769.9	4697.2	4692.7	4688.1
22.5°	7432.0	6623.4	5669.4	5256.0	5001.6	4883.5	4788.1	4683.6	4633.6	4570.0	4601.8
25°	7877.2	6732.4	5678.5	5215.1	4942.5	4733.6	4683.6	4570.0	4551.9	4461.0	4479.2
27.5°	8199.7	6791.5	5605.8	5087.9	4806.3	4647.3	4556.4	4474.6	4442.8	4374.7	4356.5
30°	8631.3	6882.3	5451.3	4928.9	4670.0	4492.8	4438.3	4420.1	4329.3	4256.6	4247.5
32.5°	9121.9	6941.4	5351.4	4765.4	4529.1	4392.9	4420.1	4333.8	4220.2	4156.6	4138.5
35°	9512.6	6964.1	5101.5	4579.1	4433.7	4347.4	4315.6	4297.5	4133.9	4074.9	4029.4
37.5°	10107.7	6914.1	4892.6	4447.4	4329.3	4297.5	4270.2	4147.6	3961.3	3875.0	3811.4
40°	10802.7	6900.5	4624.5	4261.1	4229.3	4265.7	4183.9	3993.1	3734.2	3638.8	3593.3
42.5°	11470.5	6995.9	4456.5	4161.2	4120.3	4133.9	4020.4	3734.2	3607.0	3552.5	3479.8
45°	12588.0	7195.8	4179.4	4006.7	3988.6	3979.5	3843.2	3543.4	3470.7	3402.5	3388.9
47.5°	13596.5	7064.0	4002.2	3847.7	3865.9	3815.9	3525.2	3429.8	3348.0	3279.9	3257.2
50°	13655.6	6750.6	3752.3	3725.1	3729.6	3643.3	3366.2	3302.6	3198.1	3152.7	3120.9
52.5°	13346.7	6237.2	3520.7	3529.7	3543.4	3402.5	3170.9	3125.4	3039.1	2975.5	2957.3
55°	12479.0	5437.7	3293.5	3329.9	3366.2	3098.2	3025.5	2911.9	2843.8	2752.9	2757.5
57.5°	10993.5	4379.2	2975.5	3034.6	3111.8	2816.5	2762.0	2621.2	2521.2	2448.6	2439.5
60°	7368.4	3116.3	2498.5	2521.2	2693.9	2575.8	2571.2	2430.4	2294.1	2230.5	2194.2
62.5°	4347.4	2380.4	2157.8	2135.1	2130.6	2198.7	2312.3	2262.3	2085.1	1962.5	1998.8
65°	2275.9	2057.9	2007.9	1930.7	1885.3	1867.1	1953.4	1976.1	1858.0	1726.3	1717.2
67.5°	1912.5	1912.5	1871.6	1844.4	1780.8	1703.5	1649.0	1576.3	1558.2	1521.8	1476.4
70°	1739.9	1785.3	1771.7	1708.1	1653.6	1567.3	1426.4	1308.3	1194.8	1153.9	1181.1
72.5°	1517.3	1562.7	1562.7	1530.9	1458.2	1326.5	1190.2	1053.9	958.5	885.8	876.8
75°	1167.5	1190.2	1244.7	1208.4	1113.0	1031.2	890.4	749.6	658.7	590.6	576.9
77.5°	745.0	781.4	781.4	776.8	708.7	631.4	540.6	440.6	372.5	322.5	308.9
80°	495.2	517.9	536.0	517.9	472.4	413.4	345.3	277.1	227.1	186.3	177.2
82.5°	363.4	390.7	404.3	386.1	340.7	295.3	245.3	195.3	145.4	113.6	104.5
85°	140.8	145.4	163.5	195.3	190.8	186.3	149.9	109.0	81.8	59.1	54.5
87.5°	36.3	31.8	36.3	36.3	31.8	27.3	27.3	27.3	27.3	13.6	18.2
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)