

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: P531270

Luminaire Tested: **GALN-SA6C-740-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531270
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-SA6C-740-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1050mA 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: 37619 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

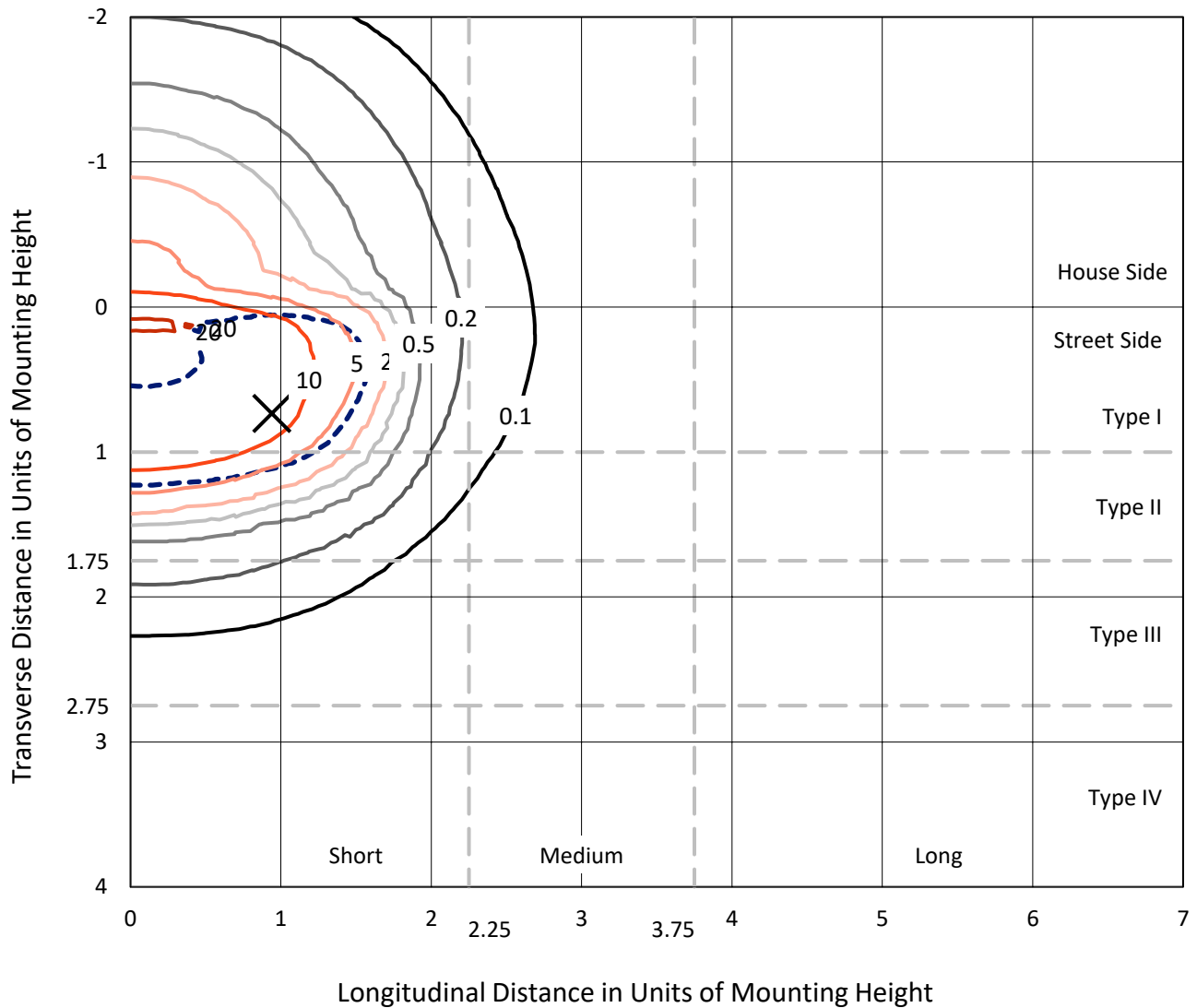
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

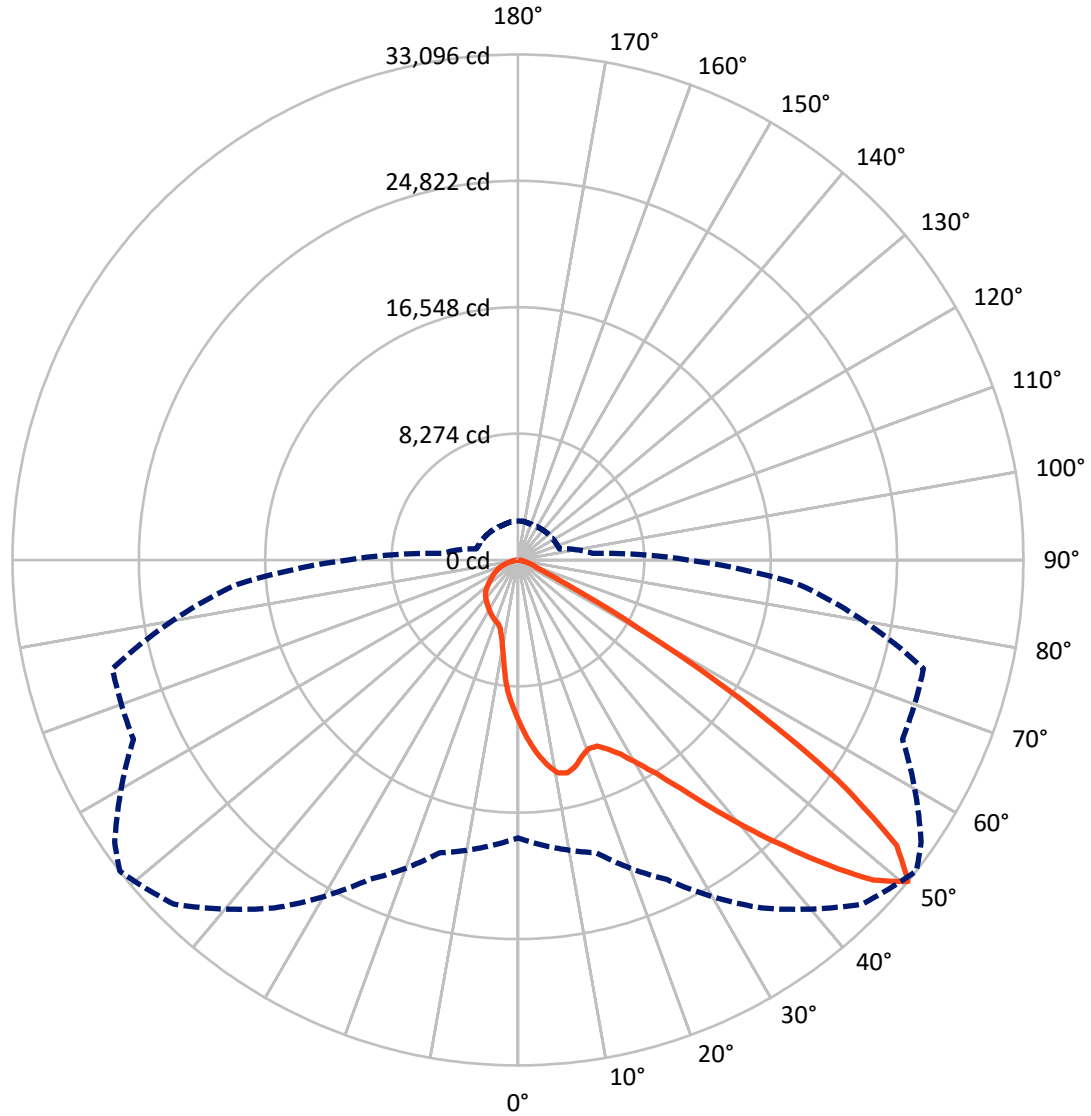
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.7 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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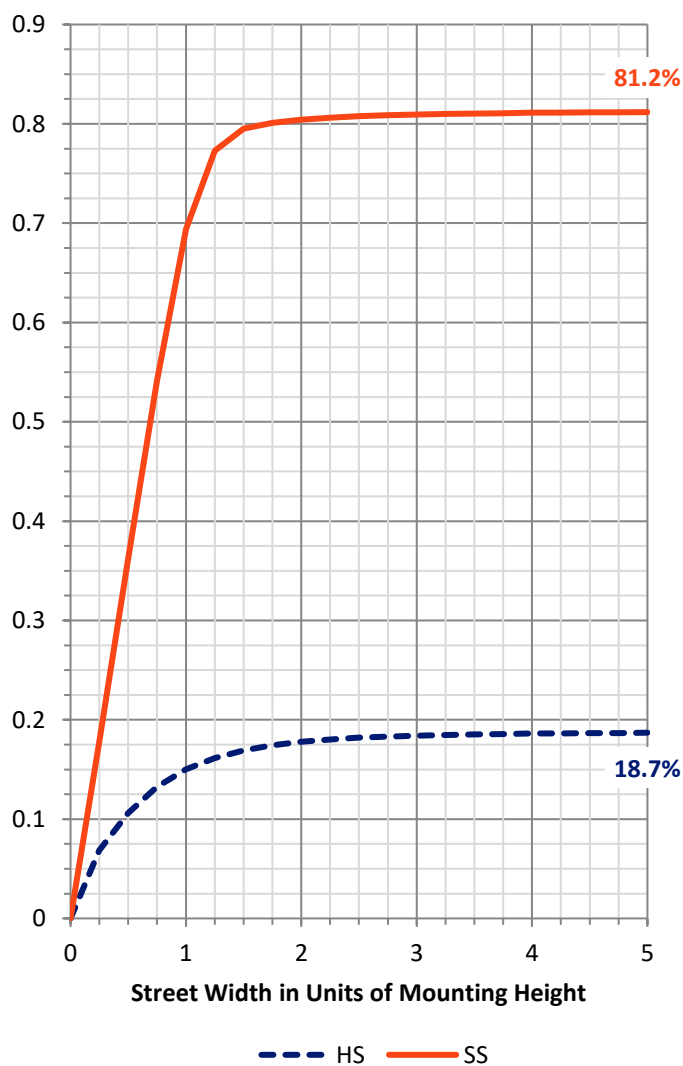
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7071.5	0.0	7071.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	30547.5	0.0	30547.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	37619.0	0.0	37619.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	977.4	2.6
10°-20°	2619.6	7.0
20°-30°	4412.7	11.7
30°-40°	7404.8	19.7
40°-50°	11327.6	30.1
50°-60°	8258.7	22.0
60°-70°	1838.0	4.9
70°-80°	662.9	1.8
80°-90°	117.3	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°	37619.0	100.0
0°-180°	37619.0	100.0

Coefficient of Utilization



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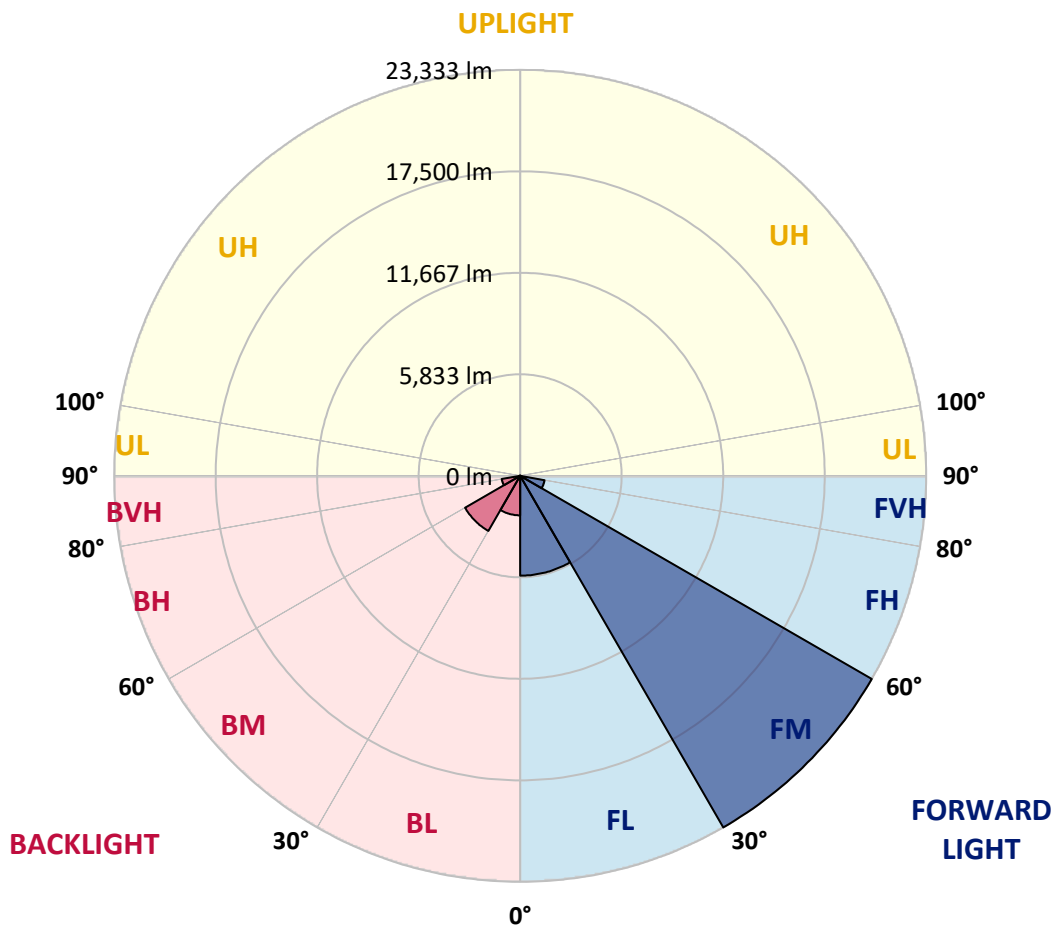
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5738.2	15.3			
FM (30°-60°)	23333.2	62.0			
FH (60°-80°)	1423.5	3.8			G1/1800
FVH (80°-90°)	52.6	0.1			G1/100
BL (0°-30°)	2271.5	6.0	B3/2500		
BM (30°-60°)	3657.9	9.7	B3/5000		
BH (60°-80°)	1077.4	2.9	B3/2500		G3/2500
BVH (80°-90°)	64.8	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°	52°	55°	65°	75°	85°
0°	10604.2	10604.2	10604.2	10604.2	10604.2	10604.2	10604.2	10604.2	10604.2	10604.2	10604.2
2.5°	12485.6	12245.3	12272.6	12100.3	11914.4	11860.0	11669.6	11488.2	11352.2	11062.1	10794.6
5°	13646.2	13573.7	13464.9	13328.9	13188.3	12843.8	12648.8	12422.2	11923.5	11474.6	11030.3
7.5°	13814.0	13800.4	13859.3	13859.3	13909.2	13777.7	13501.2	13342.5	12812.1	12082.1	11257.0
10°	12635.2	12676.0	12961.7	13333.4	13850.3	14208.4	14163.1	14122.3	13542.0	12544.6	11524.5
12.5°	11696.8	11606.1	11773.9	12091.2	12866.5	13732.4	14317.2	14321.8	14172.1	13283.6	11719.4
15°	11166.3	11229.8	11275.2	11424.8	12009.6	13011.5	14040.7	14344.4	15001.8	13804.9	12027.7
17.5°	11506.4	11293.3	11284.2	11320.5	11619.7	12372.3	13528.4	14049.7	15455.2	14475.9	12408.6
20°	11950.7	11946.1	11819.2	11773.9	11769.3	12440.3	13192.9	13900.1	15695.4	15346.4	12793.9
22.5°	12730.4	12730.4	12521.9	12422.2	12209.1	12757.6	13238.2	13718.8	16094.4	15944.8	12979.8
25°	14036.1	13823.1	13464.9	13220.1	13097.7	13292.6	13718.8	14149.5	16443.5	16579.5	13365.2
27.5°	15242.1	14906.6	14729.8	14308.2	14144.9	14031.6	14421.5	14856.7	16851.5	17567.8	13573.7
30°	16611.2	16552.3	16234.9	15690.9	15287.4	15078.9	15437.0	15867.7	17599.6	18578.8	14054.3
32.5°	19059.4	18524.4	18093.7	17427.3	16769.9	16325.6	16679.2	16964.9	18841.8	19635.2	14580.2
35°	21702.5	21530.2	20786.7	19585.3	18578.8	18179.9	18388.4	18601.5	20288.0	21249.1	15464.2
37.5°	24300.3	24064.5	23452.5	22441.5	21217.4	20405.9	20555.5	20804.9	21911.1	23425.3	16543.2
40°	26168.1	25878.0	25569.7	25420.1	24205.1	23094.3	23008.2	23071.7	24105.3	25465.4	17740.1
42.5°	26304.2	26662.3	26757.5	27360.5	27074.9	26163.6	25633.2	25646.8	26199.9	27482.9	18950.6
45°	26018.5	25687.6	26390.3	28036.0	28979.0	29405.2	28512.0	28398.7	27496.5	28652.6	19553.6
47.5°	23021.8	23112.5	24300.3	26902.6	29627.3	31531.4	31322.9	30946.6	28190.1	28611.8	19458.4
50°	18198.0	18746.6	19848.3	23089.8	27813.9	31866.9	33095.5	32225.1	27777.6	27487.4	18488.2
52.5°	12118.4	12345.1	13070.5	17255.0	22364.4	28484.8	31055.4	31254.9	27396.8	26014.0	17259.5
55°	5395.0	5376.9	6397.0	9012.9	14031.6	21675.3	25374.8	26589.8	25932.4	24513.4	16062.7
57.5°	2285.0	2362.0	2779.1	3894.4	6900.2	13079.5	17191.5	18256.9	19943.5	20129.3	12322.4
60°	1546.0	1555.0	1668.4	1949.5	2887.9	6143.1	9017.4	10295.9	11501.8	11420.2	6537.5
62.5°	1215.0	1246.7	1332.9	1446.2	1713.7	2788.2	4034.9	4746.7	4823.8	4057.6	2479.9
65°	1038.2	1042.7	1128.9	1224.1	1342.0	1623.0	1944.9	1981.2	2003.9	1931.3	1822.5
67.5°	856.9	865.9	933.9	1042.7	1151.5	1242.2	1332.9	1378.2	1482.5	1686.5	1659.3
70°	680.0	693.6	752.6	843.3	943.0	997.4	1110.7	1151.5	1246.7	1405.4	1468.9
72.5°	516.8	521.4	571.2	634.7	725.4	779.8	875.0	920.3	983.8	1119.8	1178.7
75°	371.8	385.4	421.6	453.4	467.0	503.2	593.9	643.8	734.4	793.4	797.9
77.5°	194.9	204.0	213.1	213.1	258.4	326.4	385.4	412.6	476.0	521.4	498.7
80°	77.1	81.6	104.3	140.5	181.3	235.7	276.6	290.2	344.6	371.8	385.4
82.5°	45.3	49.9	68.0	99.7	131.5	167.7	199.5	213.1	249.3	281.1	290.2
85°	22.7	27.2	40.8	63.5	86.1	104.3	99.7	95.2	95.2	90.7	95.2
87.5°	9.1	9.1	13.6	13.6	13.6	18.1	22.7	22.7	22.7	27.2	27.2
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°	10604.2	10604.2	10604.2	10604.2	10604.2	10604.2	10604.2	10604.2	10604.2	10604.2	10604.2
2.5°	10617.8	10436.4	10268.7	9960.4	9624.9	9529.7	9139.8	8999.3	8899.5	8781.7	8745.4
5°	10672.2	10431.9	9892.4	9271.3	8777.1	8142.4	7725.3	7276.5	6950.1	6868.5	6845.8
7.5°	10785.5	10373.0	9443.6	8505.1	7494.1	6632.7	5975.3	5621.7	5308.9	5290.8	5259.0
10°	10912.5	10196.1	8953.9	7480.5	6188.4	5390.5	4996.1	4841.9	4764.9	4746.7	4737.6
12.5°	11016.7	10159.9	8405.4	6483.1	5263.6	4783.0	4665.1	4651.5	4683.2	4692.3	4710.4
15°	11062.1	10014.8	7743.4	5590.0	4687.8	4511.0	4560.8	4615.2	4637.9	4696.8	4651.5
17.5°	11148.2	9828.9	6927.4	4882.7	4365.9	4397.6	4483.8	4547.2	4583.5	4624.3	4565.4
20°	11193.5	9661.2	6161.2	4461.1	4252.5	4311.5	4429.4	4479.2	4524.6	4542.7	4474.7
22.5°	11152.7	9316.6	5485.7	4121.1	4143.7	4220.8	4325.1	4379.5	4352.3	4279.8	4238.9
25°	11043.9	8831.5	4783.0	3903.5	3989.6	4125.6	4207.2	4166.4	4116.5	4075.7	4062.1
27.5°	11039.4	8237.6	4275.2	3704.0	3858.1	4044.0	4016.8	3980.5	4003.2	3971.5	3935.2
30°	11062.1	7661.8	3858.1	3590.6	3762.9	3853.6	3885.3	3849.1	3876.3	3817.3	3835.5
32.5°	10944.2	7099.7	3586.1	3459.2	3649.6	3645.0	3749.3	3776.5	3713.0	3590.6	3608.8
35°	10994.1	6646.3	3354.9	3400.2	3522.6	3522.6	3604.2	3572.5	3404.8	3332.2	3350.4
37.5°	11338.6	6202.0	3241.5	3318.6	3400.2	3436.5	3409.3	3273.3	3232.5	3232.5	3241.5
40°	11665.0	5821.2	3173.5	3300.5	3286.9	3309.6	3110.1	3123.7	3123.7	3128.2	3105.5
42.5°	11955.2	5562.8	3119.1	3191.7	3214.3	3096.5	2974.1	2960.5	2992.2	2987.7	2969.5
45°	12059.5	5349.7	3042.1	3069.3	3087.4	2892.5	2833.5	2806.3	2842.6	2856.2	2874.3
47.5°	11660.5	5172.9	2955.9	2901.5	2865.3	2738.3	2661.2	2611.4	2656.7	2733.8	2751.9
50°	11148.2	4941.7	2819.9	2715.6	2638.6	2584.2	2529.8	2479.9	2511.6	2566.0	2552.4
52.5°	10391.1	4579.0	2647.6	2538.8	2407.4	2421.0	2371.1	2343.9	2362.0	2362.0	2348.4
55°	9312.1	3762.9	2357.5	2280.4	2171.6	2207.9	2216.9	2180.7	2144.4	2176.1	2148.9
57.5°	6356.2	2656.7	2103.6	2103.6	1994.8	2044.7	2040.1	1954.0	1867.9	1876.9	1858.8
60°	3676.8	2117.2	1940.4	1922.3	1808.9	1849.7	1858.8	1799.9	1668.4	1677.4	1659.3
62.5°	2090.0	1808.9	1695.6	1668.4	1645.7	1682.0	1682.0	1604.9	1491.6	1500.6	1482.5
65°	1777.2	1677.4	1514.2	1509.7	1500.6	1509.7	1473.4	1391.8	1292.1	1251.3	1255.8
67.5°	1614.0	1550.5	1391.8	1351.0	1323.8	1319.3	1251.3	1174.2	1128.9	1092.6	1088.1
70°	1414.5	1364.6	1246.7	1192.3	1165.1	1101.7	1033.7	983.8	920.3	902.2	920.3
72.5°	1119.8	1115.3	1069.9	1011.0	952.1	902.2	843.3	775.3	716.3	702.7	671.0
75°	775.3	784.3	793.4	784.3	734.4	671.0	603.0	548.6	476.0	435.2	426.2
77.5°	507.8	521.4	535.0	516.8	485.1	426.2	380.8	312.8	258.4	226.7	222.1
80°	371.8	389.9	399.0	385.4	349.1	303.8	253.9	199.5	158.7	131.5	131.5
82.5°	285.6	303.8	312.8	290.2	253.9	217.6	181.3	140.5	108.8	86.1	81.6
85°	99.7	95.2	113.3	117.9	140.5	131.5	108.8	81.6	63.5	45.3	40.8
87.5°	27.2	27.2	31.7	31.7	27.2	22.7	22.7	22.7	18.1	13.6	13.6
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)