

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: P533310

Luminaire Tested: **GALN-SA8D-727-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-727-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43820 lumens
Efficiency: N/A
Efficacy: 88.9 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

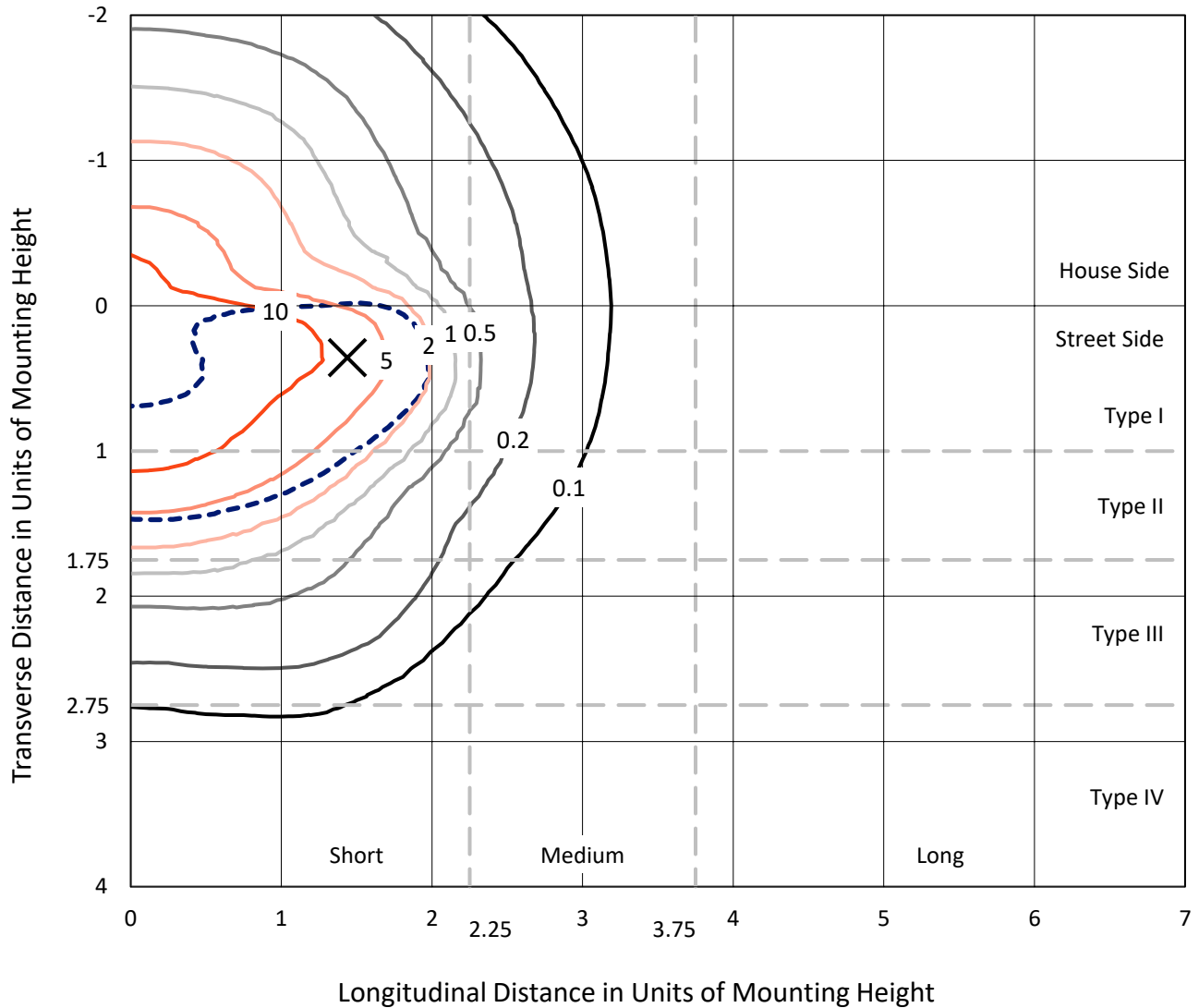
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

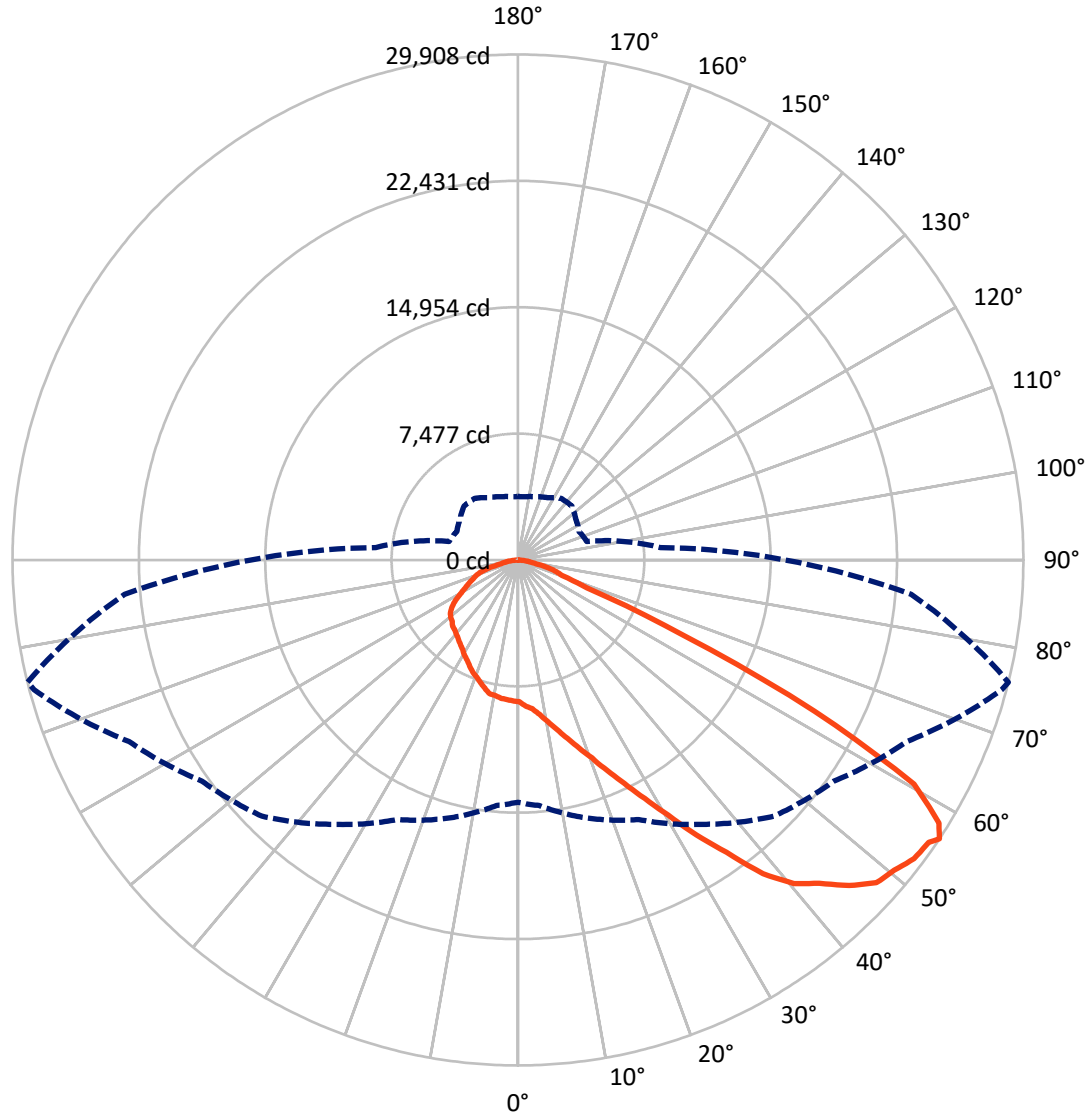
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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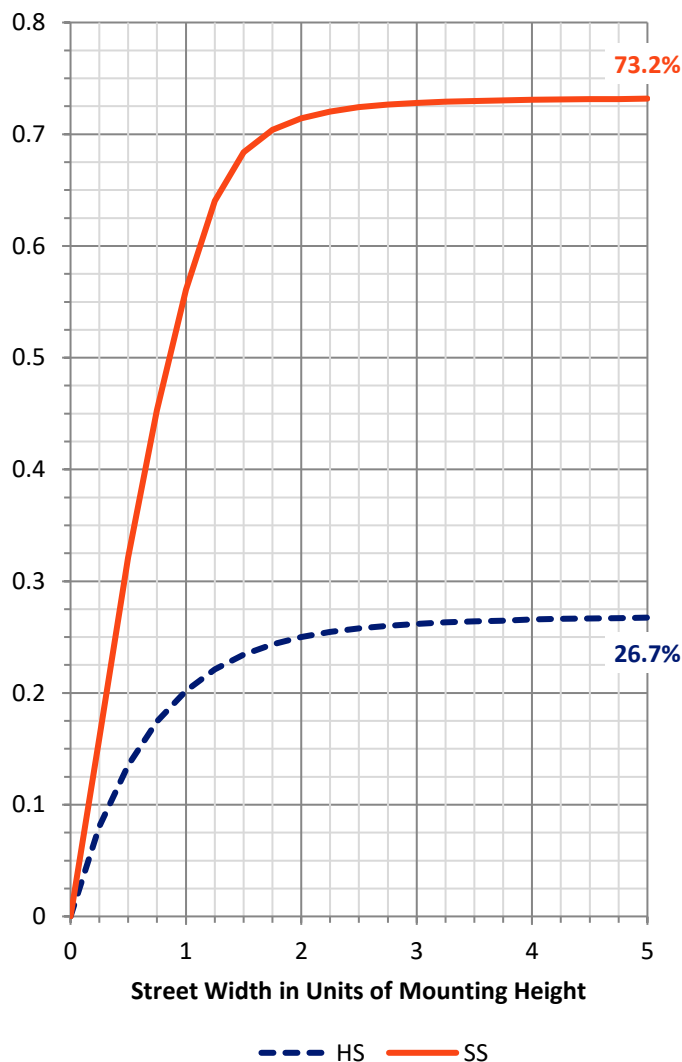
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11781.9	0.0	11781.9
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	32038.1	0.0	32038.1
	% Fixture	73.1	0.0	73.1
Total	Lumens	43820.0	0.0	43820.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	831.5	1.9
10°-20°	2611.9	6.0
20°-30°	4568.0	10.4
30°-40°	7152.1	16.3
40°-50°	10404.2	23.7
50°-60°	11434.9	26.1
60°-70°	5104.1	11.6
70°-80°	1474.2	3.4
80°-90°	239.1	0.5
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°	43820.0	100.0
0°-180°	43820.0	100.0



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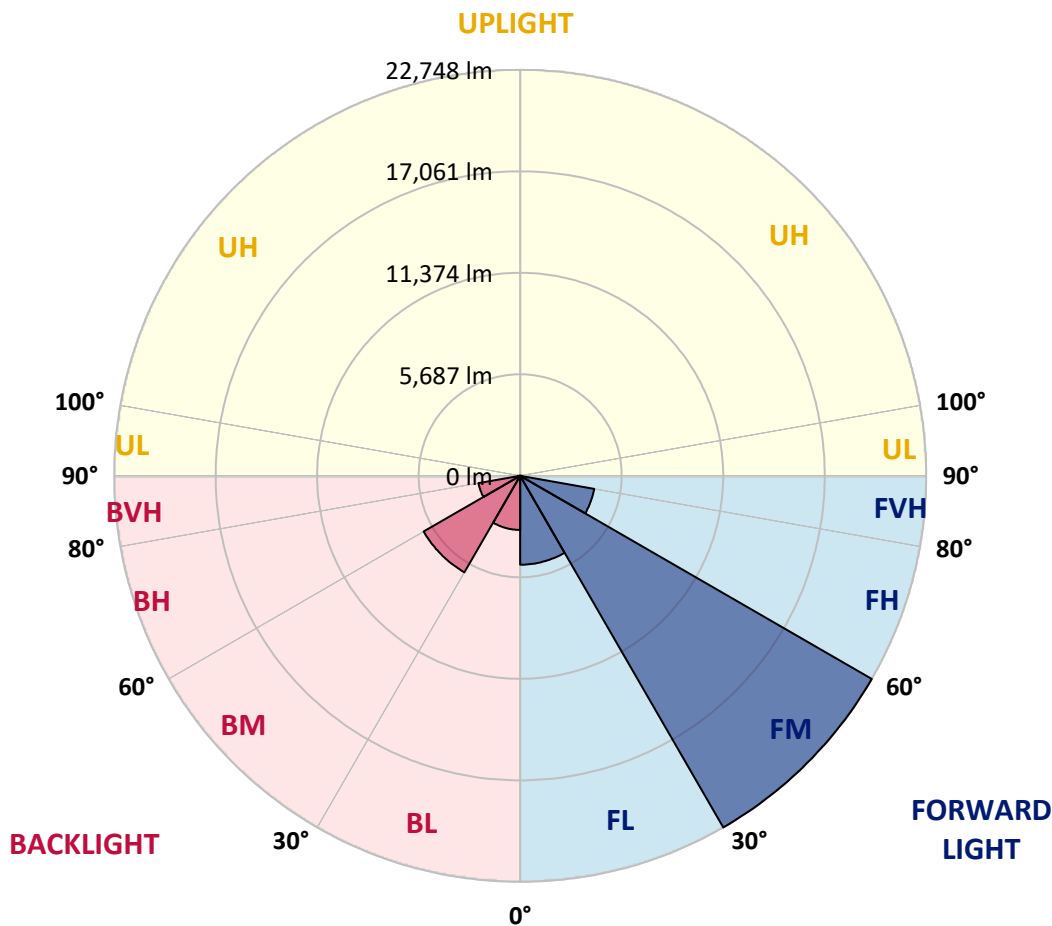
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4979.7	11.4			
FM (30°-60°)	22747.8	51.9			
FH (60°-80°)	4207.8	9.6			G2/5000
FVH (80°-90°)	102.9	0.2			G2/225
BL (0°-30°)	3031.7	6.9	B4/5000		
BM (30°-60°)	6243.4	14.2	B4/8500		
BH (60°-80°)	2370.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	136.2	0.3			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°	75°	76°	85°
0°	8384.4	8384.4	8384.4	8384.4	8384.4	8384.4	8384.4	8384.4	8384.4	8384.4	8384.4
2.5°	9236.5	9088.8	9077.4	9037.6	9060.4	8958.1	8850.2	8708.2	8560.5	8651.4	8435.5
5°	9884.0	9685.2	9764.8	9628.4	9645.5	9509.1	9287.6	9122.9	8941.1	8833.2	8679.8
7.5°	10111.3	10128.3	10185.1	10162.4	10048.8	10048.8	9901.1	9611.4	9293.3	9230.8	8975.2
10°	10418.0	10423.7	10361.2	10378.2	10537.3	10463.5	10332.8	10207.8	9798.8	9725.0	9270.5
12.5°	10525.9	10423.7	10525.9	10616.8	10804.3	10906.5	10878.1	10787.2	10349.8	10298.7	9634.1
15°	10543.0	10480.5	10565.7	10770.2	10934.9	11366.6	11582.5	11520.0	10940.6	10946.3	10043.1
17.5°	10463.5	10548.7	10582.7	10758.8	11139.4	11542.7	12167.6	12252.8	11775.6	11701.8	10560.0
20°	10571.4	10508.9	10554.3	10713.4	11219.0	11849.5	12667.5	13229.8	12559.6	12508.4	11094.0
22.5°	10986.1	10900.8	10889.5	10991.7	11355.3	12008.5	13195.8	14206.9	13513.9	13542.3	11758.6
25°	11309.8	11355.3	11315.5	11309.8	11537.1	12247.1	13894.5	15371.4	14809.0	14644.3	12542.5
27.5°	11866.5	11974.5	11894.9	12002.9	11951.7	12605.0	14394.3	16660.9	16206.4	15984.9	13252.6
30°	12639.1	12695.9	12622.0	12622.0	12468.7	13104.9	14848.8	18007.1	17819.7	17518.6	14087.6
32.5°	13655.9	13741.1	13593.4	13508.2	13485.5	13849.0	15666.8	19336.4	19654.5	19398.9	15195.3
35°	15002.2	14951.0	14774.9	14695.4	14388.7	14990.8	16882.4	20864.4	21699.4	21245.0	16535.9
37.5°	16189.4	16109.9	16098.5	15655.4	15729.3	16223.5	17916.2	22023.2	23681.9	23551.3	17950.3
40°	17297.1	17370.9	17490.2	17240.3	17126.7	17672.0	19120.5	22909.4	25221.3	25170.2	19041.0
42.5°	18484.3	18416.1	18626.3	18416.1	18245.7	19018.3	20427.0	23522.9	26573.3	26152.9	20182.8
45°	20205.5	19989.6	20063.5	20080.5	19955.5	20239.6	20966.7	23966.0	27521.9	27476.5	21017.8
47.5°	21642.6	21648.3	21523.4	21426.8	21046.2	21330.2	21568.8	24244.3	28612.6	28538.8	21341.6
50°	22176.6	22102.8	22466.3	22676.5	22699.2	22119.8	22040.3	24397.7	29186.3	28862.5	21665.4
52.5°	20256.6	20324.8	20898.5	22148.2	22869.6	22932.1	22591.3	24715.8	29419.2	29351.1	21926.7
55°	16303.0	16632.5	17575.4	19018.3	20728.1	22608.3	23187.7	25045.3	29544.2	29487.4	23085.5
56°	14331.9	14587.5	15814.5	16944.9	19092.1	21432.5	22812.8	25397.4	29640.8	29907.7	23358.2
57.5°	11537.1	11832.4	12712.9	13996.7	16530.2	19194.4	21779.0	24965.7	29265.9	29368.1	23557.0
60°	7214.2	7242.6	8299.2	9145.6	10929.3	13530.9	16621.1	21722.2	27084.5	26936.9	21159.8
62.5°	4731.8	4737.5	5697.5	6390.5	7202.9	7799.3	9781.8	14405.7	19983.9	19722.6	15064.6
65°	3323.1	3396.9	4141.1	5067.0	5396.5	5084.0	5021.5	7594.8	11162.2	10787.2	8094.7
67.5°	2431.2	2436.9	3095.9	4089.9	4567.1	3868.4	3141.3	3709.4	4419.4	4408.1	3749.1
70°	1607.6	1675.7	2181.3	3056.1	3601.4	3107.2	2567.6	2652.8	2811.8	2811.8	2789.1
72.5°	937.3	999.8	1334.9	1937.0	2022.3	1942.7	2033.6	2272.2	2374.4	2368.8	2340.4
75°	534.0	562.4	636.2	806.6	1005.4	1187.2	1494.0	1721.2	1823.4	1885.9	1812.1
77.5°	312.4	329.5	374.9	460.1	522.6	641.9	812.3	971.4	1107.7	1090.7	1102.0
80°	164.7	164.7	210.2	272.7	363.6	454.4	539.6	630.5	704.4	721.4	738.5
82.5°	96.6	102.2	136.3	198.8	261.3	323.8	414.7	477.2	545.3	551.0	562.4
85°	51.1	56.8	85.2	130.7	176.1	198.8	204.5	193.1	210.2	198.8	227.2
87.5°	17.0	17.0	28.4	22.7	22.7	28.4	34.1	34.1	45.4	45.4	45.4
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°	8384.4	8384.4	8384.4	8384.4	8384.4	8384.4	8384.4	8384.4	8384.4	8384.4	8384.4
2.5°	8429.8	8429.8	8333.3	8151.5	8123.1	8049.2	7981.1	7975.4	7924.3	7878.8	7856.1
5°	8588.9	8412.8	8270.8	8106.1	7912.9	7822.0	7719.8	7606.2	7560.7	7606.2	7600.5
7.5°	8770.7	8623.0	8196.9	7890.2	7668.7	7577.8	7464.2	7344.9	7356.2	7356.2	7276.7
10°	8946.8	8747.9	8066.3	7674.3	7350.5	7282.4	7219.9	7265.3	7322.1	7333.5	7282.4
12.5°	9242.1	8793.4	8003.8	7458.5	7254.0	7106.3	7146.0	7271.0	7390.3	7356.2	7396.0
15°	9463.7	8833.2	7719.8	7236.9	6981.3	7049.5	7191.5	7276.7	7475.5	7452.8	7492.6
17.5°	9679.5	8855.9	7441.4	6941.6	6833.6	7021.1	7129.0	7373.3	7435.8	7572.1	7623.2
20°	10122.6	8901.3	7157.4	6759.8	6725.7	6941.6	7129.0	7242.6	7378.9	7498.2	7498.2
22.5°	10349.8	8878.6	6970.0	6521.2	6629.1	6765.5	6935.9	7129.0	7129.0	7242.6	7248.3
25°	10633.9	8787.7	6674.6	6407.6	6487.1	6617.8	6810.9	6742.7	6816.6	6816.6	6907.5
27.5°	10957.7	8594.6	6418.9	6203.1	6362.1	6504.2	6532.6	6487.1	6401.9	6390.5	6356.5
30°	11219.0	8356.0	6231.5	6134.9	6265.6	6345.1	6254.2	6157.6	6010.0	5998.6	5919.1
32.5°	11576.8	8060.6	5998.6	5964.5	6112.2	6117.9	6089.5	5941.8	5725.9	5635.0	5544.2
35°	12179.0	7890.2	5822.5	5873.6	5919.1	5902.0	5850.9	5691.8	5476.0	5436.2	5402.1
37.5°	12622.0	7765.2	5640.7	5703.2	5743.0	5765.7	5612.3	5436.2	5441.9	5362.4	5339.7
40°	13121.9	7685.7	5493.0	5521.4	5527.1	5601.0	5413.5	5328.3	5368.1	5316.9	5351.0
42.5°	13763.8	7708.4	5339.7	5316.9	5424.9	5396.5	5305.6	5192.0	5214.7	5061.3	5084.0
45°	14104.6	7861.8	5248.8	5146.5	5265.8	5260.1	5140.8	5032.9	4896.6	4601.2	4612.6
47.5°	14331.9	7901.6	5032.9	4964.7	5089.7	5163.6	5027.2	4777.3	4584.2	4374.0	4322.8
50°	14564.8	7975.4	4930.7	4788.6	4839.8	5015.9	4845.5	4606.9	4419.4	4232.0	4260.4
52.5°	14769.3	8117.4	4731.8	4521.7	4612.6	4805.7	4714.8	4425.1	4220.6	4067.2	4021.8
55°	15678.1	8435.5	4396.7	4124.0	4339.9	4584.2	4533.0	4180.8	3959.3	3879.8	3868.4
56°	15820.1	8446.9	4220.6	3987.7	4186.5	4510.3	4447.8	4072.9	3874.1	3749.1	3754.8
57.5°	15842.9	8310.5	3970.7	3862.7	4033.1	4402.4	4322.8	3987.7	3715.0	3601.4	3567.3
60°	13939.9	6487.1	3658.2	3590.1	3788.9	4072.9	4044.5	3754.8	3448.1	3317.4	3379.9
62.5°	9503.4	4754.6	3414.0	3402.6	3504.9	3783.2	3709.4	3448.1	3192.4	3107.2	3067.5
65°	5532.8	3607.1	3175.4	3129.9	3215.2	3362.8	3414.0	3141.3	2874.3	2817.5	2800.5
67.5°	3266.3	2982.3	2868.6	2794.8	2766.4	2857.3	2897.0	2738.0	2471.0	2391.5	2459.6
70°	2732.3	2652.8	2658.5	2533.5	2465.3	2402.8	2368.8	2226.7	2005.2	1903.0	1874.6
72.5°	2357.4	2323.3	2300.6	2187.0	2124.5	1982.5	1834.8	1692.8	1528.1	1442.8	1448.5
75°	1800.7	1789.4	1800.7	1743.9	1636.0	1522.4	1386.0	1204.3	1079.3	971.4	994.1
77.5°	1073.6	1107.7	1124.7	1102.0	1056.6	954.3	869.1	749.8	630.5	545.3	534.0
80°	738.5	766.9	795.3	766.9	721.4	647.6	556.7	465.8	380.6	335.1	323.8
82.5°	562.4	590.8	607.8	579.4	522.6	443.1	380.6	318.1	249.9	204.5	193.1
85°	204.5	232.9	227.2	272.7	295.4	284.0	244.3	187.5	142.0	102.2	96.6
87.5°	56.8	51.1	56.8	56.8	56.8	51.1	45.4	45.4	45.4	28.4	22.7
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)