

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: P533985

Luminaire Tested: **GALN-SA9C-722-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533985
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-722-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27638 lumens
Efficiency: N/A
Efficacy: 57.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

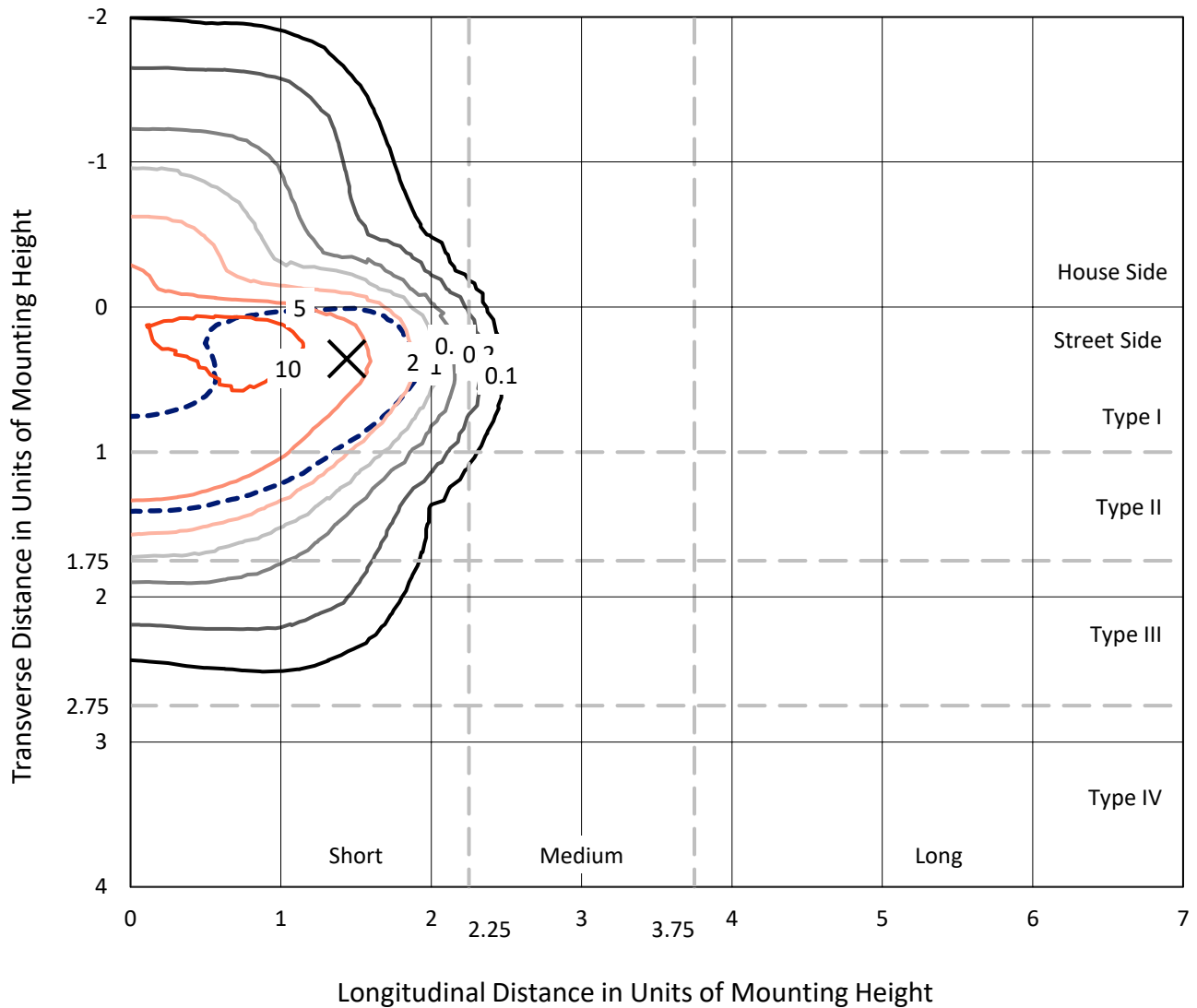
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

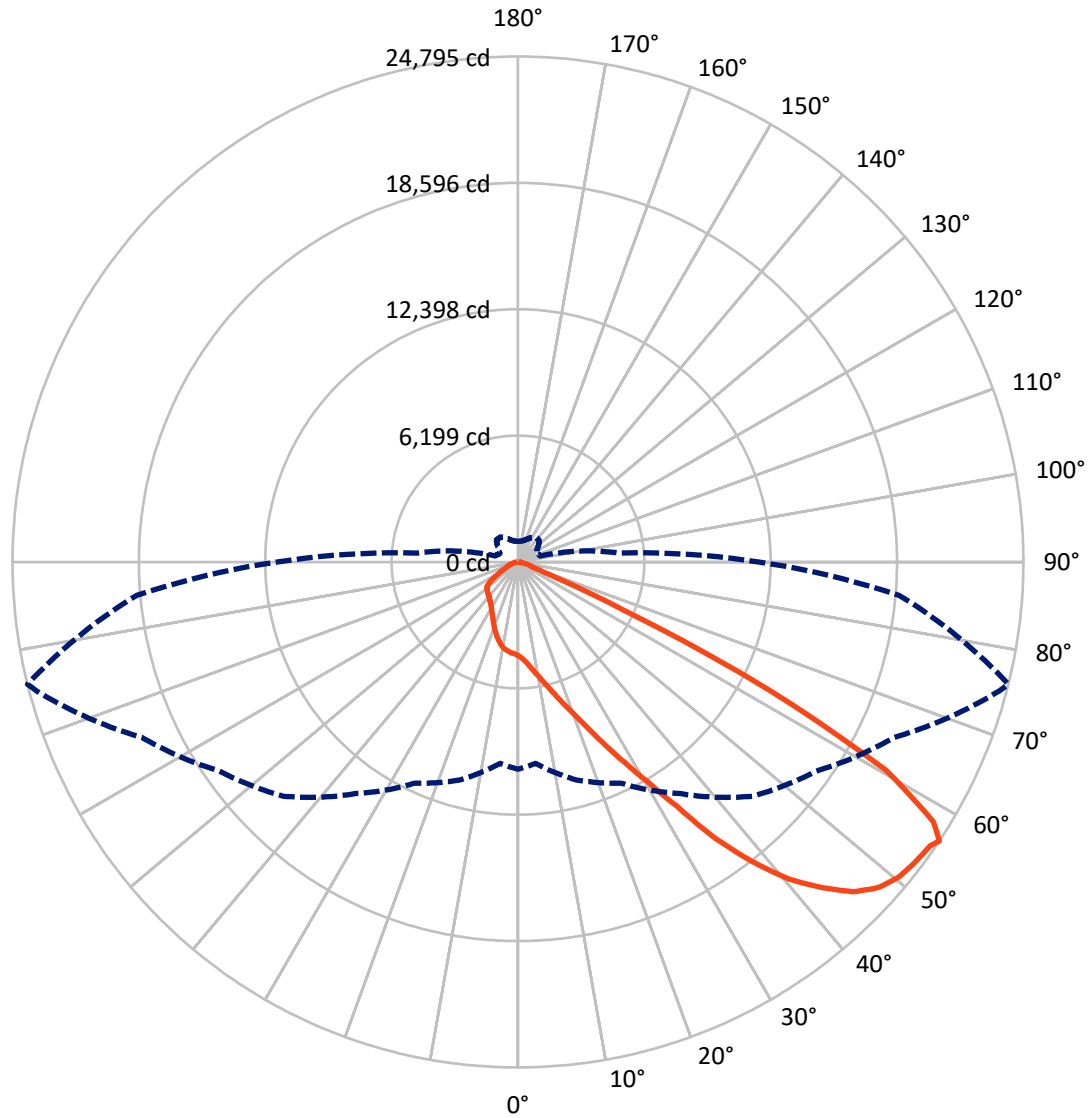
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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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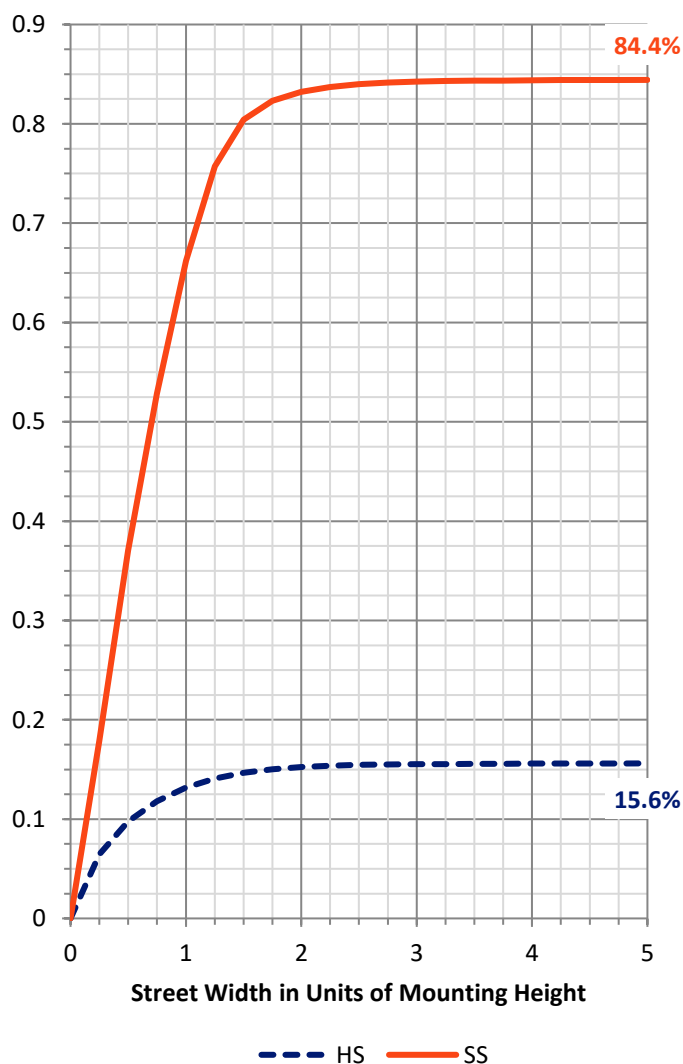
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4341.8	0.0	4341.8
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	23296.2	0.0	23296.2
	% Fixture	84.3	0.0	84.3
Total	Lumens	27638.0	0.0	27638.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.4	1.7
10°-20°	1488.8	5.4
20°-30°	2699.6	9.8
30°-40°	4655.6	16.8
40°-50°	7563.2	27.4
50°-60°	7971.9	28.8
60°-70°	2435.7	8.8
70°-80°	312.2	1.1
80°-90°	47.5	0.2
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°	27638.0	100.0
0°-180°	27638.0	100.0

Coefficient of Utilization

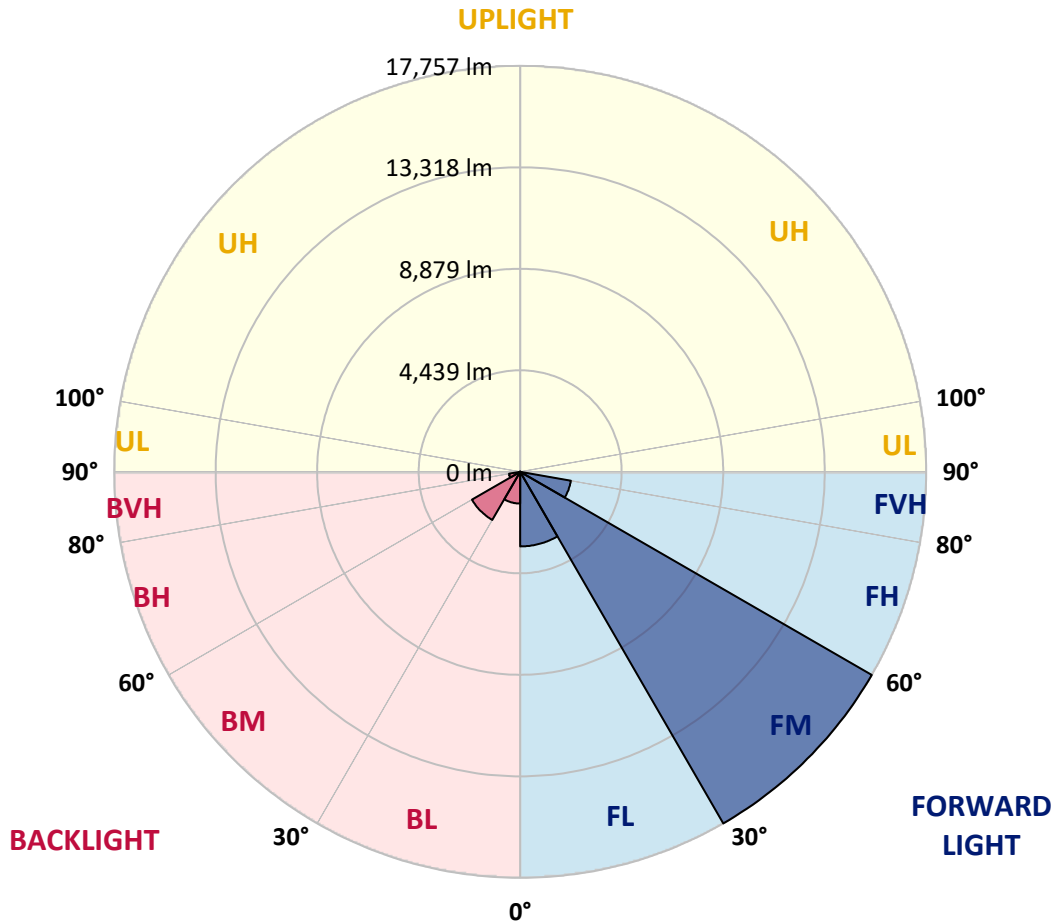


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3262.9	11.8			
FM (30°-60°)	17757.4	64.2			
FH (60°-80°)	2252.7	8.2			G2/5000
FVH (80°-90°)	23.3	0.1			G1/100
BL (0°-30°)	1388.9	5.0	B3/2500		
BM (30°-60°)	2433.3	8.8	B2/2500		
BH (60°-80°)	495.3	1.8	B1/500		G1/500
BVH (80°-90°)	24.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4600.4	4600.4	4600.4	4600.4	4600.4	4600.4	4600.4	4600.4	4600.4	4600.4	4600.4
2.5°	5298.3	5176.1	5181.2	5171.0	5155.7	5099.7	4931.5	4906.1	4794.0	4763.4	4661.5
5°	5935.2	5828.2	5889.3	5797.6	5711.0	5660.1	5384.9	5257.6	5079.3	5013.0	4870.4
7.5°	6332.5	6281.6	6261.2	6266.3	6184.8	6057.4	5935.2	5655.0	5415.5	5364.6	5064.0
10°	6526.1	6495.6	6526.1	6510.8	6546.5	6561.8	6347.8	6179.7	5828.2	5741.6	5272.9
12.5°	6572.0	6633.1	6658.6	6724.8	6811.4	6959.2	6943.9	6714.6	6245.9	6189.9	5593.8
15°	6684.1	6735.0	6709.5	6816.5	6979.5	7229.2	7361.6	7326.0	6821.6	6719.7	5965.7
17.5°	6786.0	6694.3	6780.9	6994.8	7157.9	7539.9	7860.9	8008.6	7448.2	7331.1	6307.1
20°	6923.5	6898.0	6882.7	6989.7	7280.1	7789.6	8426.4	8696.4	8151.3	8029.0	6796.1
22.5°	7341.3	7346.4	7336.2	7178.2	7387.1	7962.8	8920.6	9588.0	8991.9	8890.0	7351.4
25°	7891.5	7825.2	7774.3	7646.9	7621.5	8120.7	9419.8	10678.2	10000.6	9929.3	7952.6
27.5°	8472.3	8472.3	8319.4	8202.2	8039.2	8513.0	9878.3	11737.9	11218.2	11121.4	8477.3
30°	9104.0	9139.6	9119.3	8869.6	8767.7	8941.0	10347.0	13093.0	12614.1	12491.9	9343.4
32.5°	10036.3	9959.9	10046.5	9837.6	9537.0	9689.9	11085.8	14305.5	14427.8	14254.6	10479.5
35°	11269.2	11223.3	11167.3	10825.9	10469.3	10591.6	12130.1	15798.2	16705.1	16618.5	11625.8
37.5°	12374.7	12349.2	12303.4	12069.0	11656.4	11804.1	13317.2	17352.1	18926.3	18641.0	13245.9
40°	13536.2	13673.8	13526.1	13317.2	12940.2	13266.2	14713.1	18274.2	20796.0	20449.6	14483.8
42.5°	15110.5	15003.5	15069.7	14687.6	14483.8	14840.4	16114.1	19196.3	22247.9	21835.3	15798.2
45°	16786.6	16791.7	16613.4	16491.1	15961.3	16348.4	16975.1	19705.8	23404.4	23083.4	16791.7
47.5°	17861.5	17856.4	18050.0	18243.6	17698.5	17316.4	17560.9	20189.7	24000.5	23852.7	17153.4
50°	17693.4	17744.3	17994.0	18717.4	19002.7	18488.2	18111.2	20047.1	24270.5	24255.2	17464.1
52.5°	15390.7	15558.8	15976.5	17020.9	18457.6	19094.4	18686.8	20312.0	24402.9	24428.4	17927.8
55°	11717.5	11809.2	12603.9	13872.5	15462.0	17642.5	18457.6	20520.9	24504.8	24550.7	18488.2
56°	10163.6	9919.1	11065.4	11967.1	13867.4	16251.6	17876.8	20357.9	24443.7	24795.2	18768.4
57.5°	7672.4	7509.4	8436.6	9562.5	11391.4	13908.1	16073.3	19588.6	24031.0	24025.9	18365.9
60°	4666.6	4503.6	5216.8	5879.1	6903.1	8564.0	10861.6	15599.5	20317.1	20745.0	14871.0
62.5°	2776.5	2878.4	3581.5	3983.9	4315.1	4488.3	5619.3	9272.1	13556.6	13862.3	9226.2
65°	1849.3	1885.0	2414.8	3077.1	3224.9	2567.7	2287.5	3754.7	5879.1	5690.6	3805.6
67.5°	1141.2	1222.7	1620.1	2312.9	2562.6	1874.8	1085.1	1401.0	1620.1	1620.1	1100.4
70°	692.9	733.6	1080.0	1574.2	1757.6	1207.4	789.7	789.7	779.5	764.2	657.2
72.5°	331.1	356.6	550.2	810.0	825.3	636.8	611.3	667.4	652.1	647.0	545.1
75°	142.6	152.8	193.6	254.7	290.4	270.0	371.9	478.9	494.2	478.9	392.3
77.5°	45.9	50.9	71.3	91.7	96.8	117.2	157.9	198.7	229.3	214.0	193.6
80°	5.1	10.2	20.4	45.9	71.3	91.7	117.2	132.5	147.7	147.7	137.6
82.5°	5.1	5.1	20.4	40.8	66.2	86.6	112.1	127.4	147.7	152.8	142.6
85°	0.0	5.1	15.3	35.7	56.0	56.0	50.9	50.9	35.7	35.7	35.7
87.5°	0.0	0.0	5.1	5.1	5.1	10.2	10.2	10.2	10.2	10.2	10.2
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°	4600.4	4600.4	4600.4	4600.4	4600.4	4600.4	4600.4	4600.4	4600.4	4600.4	4600.4
2.5°	4641.1	4631.0	4493.4	4406.8	4360.9	4269.2	4213.2	4172.4	4141.9	4106.2	4111.3
5°	4702.3	4666.6	4437.4	4279.4	4090.9	3989.0	3902.4	3831.1	3785.3	3775.1	3754.7
7.5°	4875.5	4687.0	4340.6	4055.3	3815.8	3713.9	3637.5	3591.7	3612.0	3566.2	3601.9
10°	5008.0	4727.8	4223.4	3810.7	3571.3	3494.9	3454.1	3489.8	3540.7	3520.3	3494.9
12.5°	5171.0	4768.5	4034.9	3576.4	3352.2	3296.2	3367.5	3433.7	3535.6	3576.4	3525.4
15°	5354.4	4814.4	3795.4	3306.4	3163.7	3209.6	3331.8	3449.0	3550.9	3601.9	3632.4
17.5°	5578.5	4799.1	3561.1	3092.4	2985.4	3117.9	3265.6	3372.6	3525.4	3601.9	3581.5
20°	5787.4	4748.1	3301.3	2878.4	2883.5	3005.8	3128.1	3301.3	3382.8	3484.7	3449.0
22.5°	5986.1	4656.4	3031.3	2730.7	2730.7	2919.2	2980.3	3092.4	3163.7	3214.7	3209.6
25°	6266.3	4483.2	2807.1	2588.0	2649.2	2771.4	2822.4	2858.0	2827.5	2868.2	2873.3
27.5°	6465.0	4304.9	2623.7	2460.7	2572.8	2664.5	2649.2	2628.8	2557.5	2501.4	2537.1
30°	6679.0	4096.0	2465.8	2374.1	2435.2	2516.7	2455.6	2394.4	2282.4	2190.7	2195.8
32.5°	6984.6	3999.2	2328.2	2272.2	2353.7	2363.9	2297.6	2205.9	2093.9	2007.3	2002.2
35°	7555.2	3938.1	2211.0	2205.9	2221.2	2226.3	2160.1	2048.0	2002.2	1930.8	1956.3
37.5°	8125.8	3907.5	2129.5	2109.1	2104.1	2109.1	2032.7	1925.7	2012.4	2007.3	2017.4
40°	8854.3	4045.1	2012.4	1986.9	1992.0	1992.0	1895.2	1864.6	2017.4	2032.7	2037.8
42.5°	9593.1	4218.3	1935.9	1854.4	1874.8	1874.8	1823.9	1788.2	1895.2	1793.3	1778.0
45°	10235.0	4473.0	1854.4	1722.0	1772.9	1798.4	1783.1	1722.0	1655.7	1482.5	1482.5
47.5°	10443.8	4697.2	1757.6	1594.6	1635.4	1747.4	1701.6	1574.2	1457.0	1314.4	1304.2
50°	10810.7	4941.7	1681.2	1446.9	1533.5	1671.0	1625.2	1497.8	1365.3	1263.5	1268.5
52.5°	11187.7	5221.9	1538.6	1273.6	1380.6	1609.9	1609.9	1467.2	1263.5	1192.1	1181.9
55°	11753.1	5211.7	1283.8	1044.4	1232.9	1518.2	1543.7	1314.4	1131.0	1075.0	1075.0
56°	11834.7	4977.4	1156.5	978.2	1166.7	1492.7	1497.8	1273.6	1080.0	1018.9	1018.9
57.5°	11223.3	4493.4	1013.8	896.6	1085.1	1446.9	1451.9	1238.0	1039.3	952.7	942.5
60°	8635.3	3041.5	845.7	799.8	983.2	1304.2	1329.7	1125.9	911.9	845.7	840.6
62.5°	4875.5	1686.3	743.8	723.4	845.7	1110.6	1187.0	983.2	774.4	738.7	748.9
65°	2226.3	927.2	626.6	585.9	682.7	855.9	957.8	810.0	636.8	596.1	596.1
67.5°	815.1	631.7	534.9	463.6	478.9	555.3	621.5	524.7	422.8	361.7	377.0
70°	580.8	529.8	468.7	402.5	371.9	361.7	356.6	295.5	208.9	163.0	173.2
72.5°	468.7	438.1	392.3	341.3	290.4	244.5	208.9	152.8	96.8	66.2	61.1
75°	336.2	321.0	285.3	244.5	203.8	173.2	142.6	96.8	50.9	25.5	25.5
77.5°	173.2	173.2	168.1	152.8	127.4	101.9	81.5	56.0	30.6	10.2	10.2
80°	132.5	142.6	147.7	132.5	117.2	91.7	66.2	40.8	20.4	5.1	5.1
82.5°	127.4	147.7	157.9	137.6	117.2	86.6	66.2	40.8	20.4	5.1	5.1
85°	30.6	30.6	45.9	50.9	66.2	71.3	56.0	35.7	15.3	5.1	5.1
87.5°	10.2	10.2	10.2	10.2	10.2	10.2	5.1	5.1	5.1	5.1	0.0
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)