

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: P532211

Luminaire Tested: **GALN-SA7C-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-740-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28636 lumens
Efficiency: N/A
Efficacy: 76.0 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

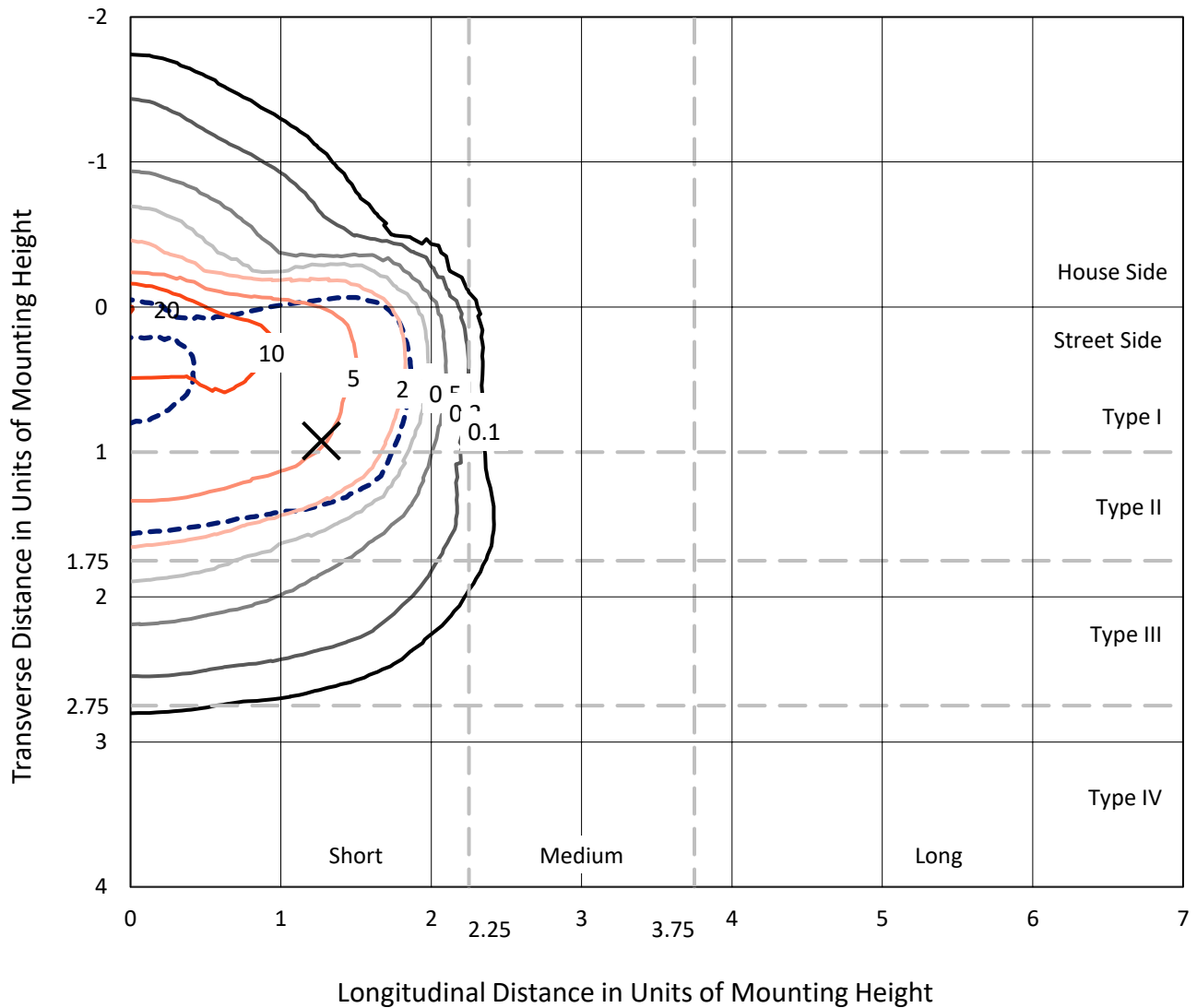
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

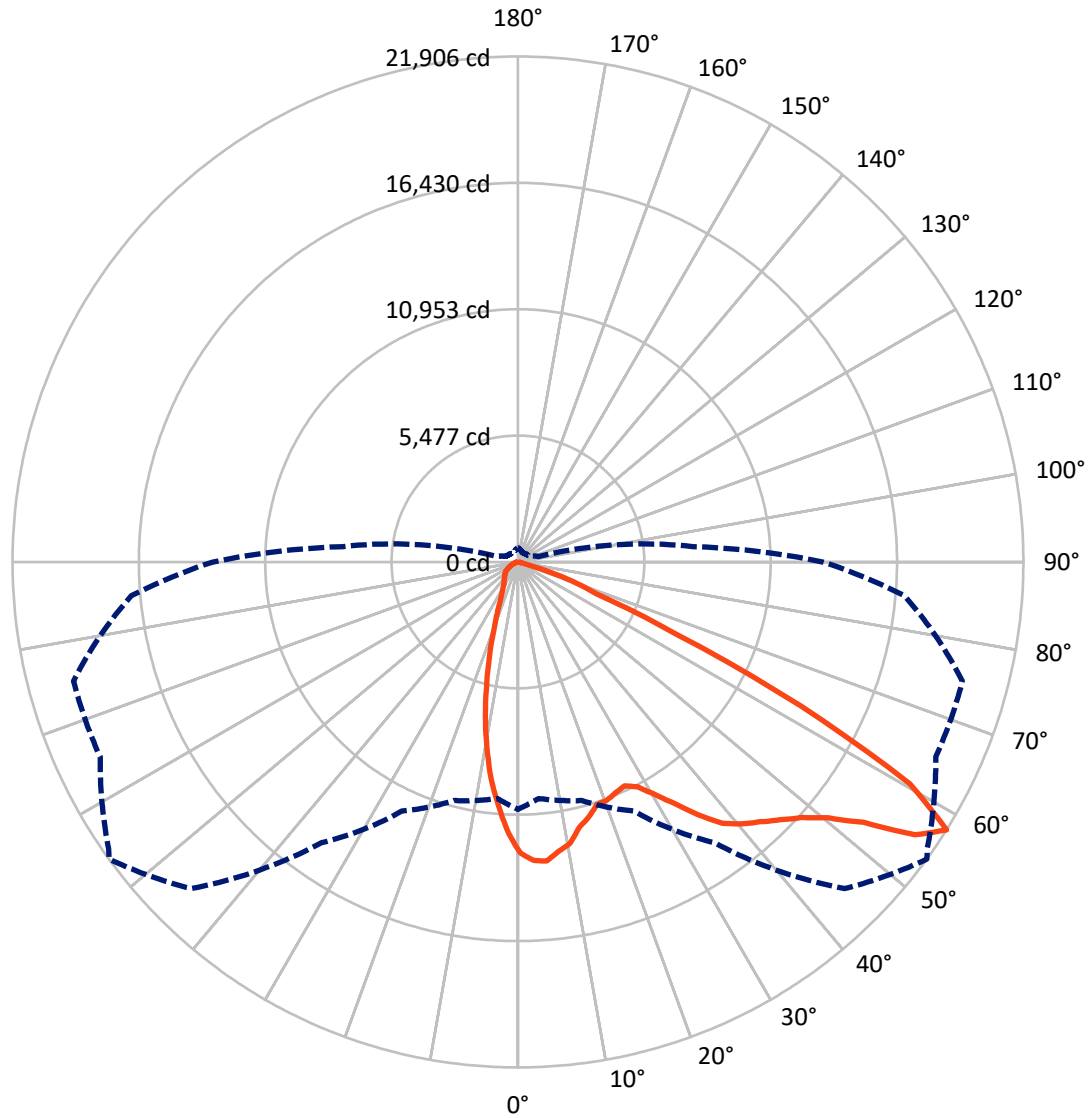
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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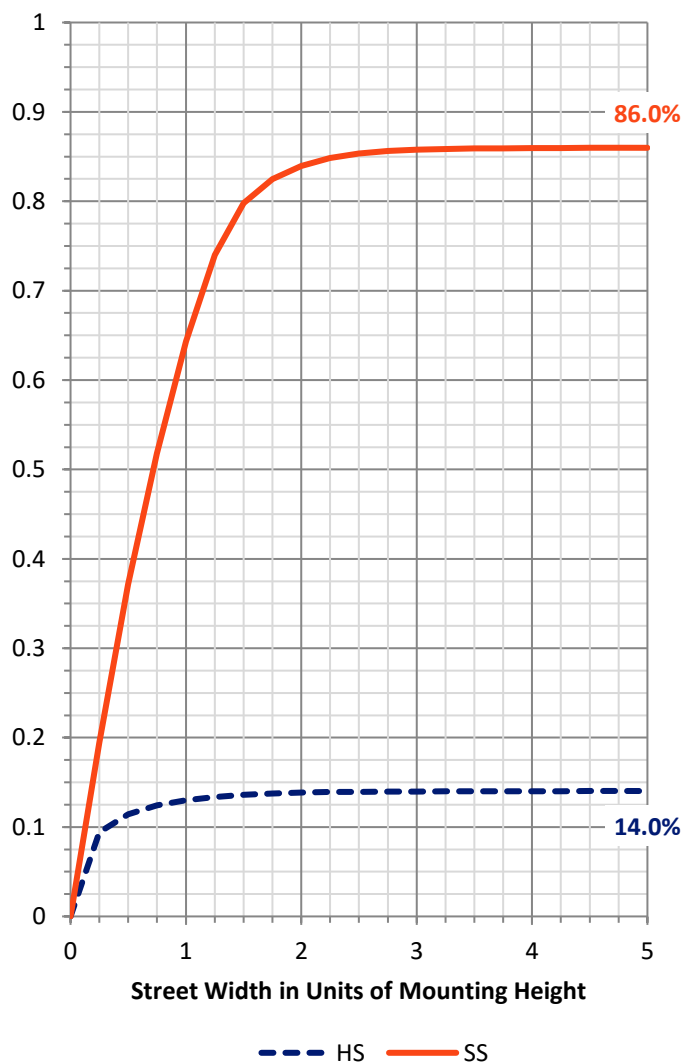
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4046.7	0.0	4046.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	24589.2	0.0	24589.2
	% Fixture	85.9	0.0	85.9
Total	Lumens	28636.0	0.0	28636.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1055.6	3.7
10°-20°	2253.7	7.9
20°-30°	2986.6	10.4
30°-40°	4340.4	15.2
40°-50°	6436.2	22.5
50°-60°	8048.2	28.1
60°-70°	3174.6	11.1
70°-80°	316.1	1.1
80°-90°	24.6	0.1
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°	28636.0	100.0
0°-180°	28636.0	100.0

Coefficient of Utilization



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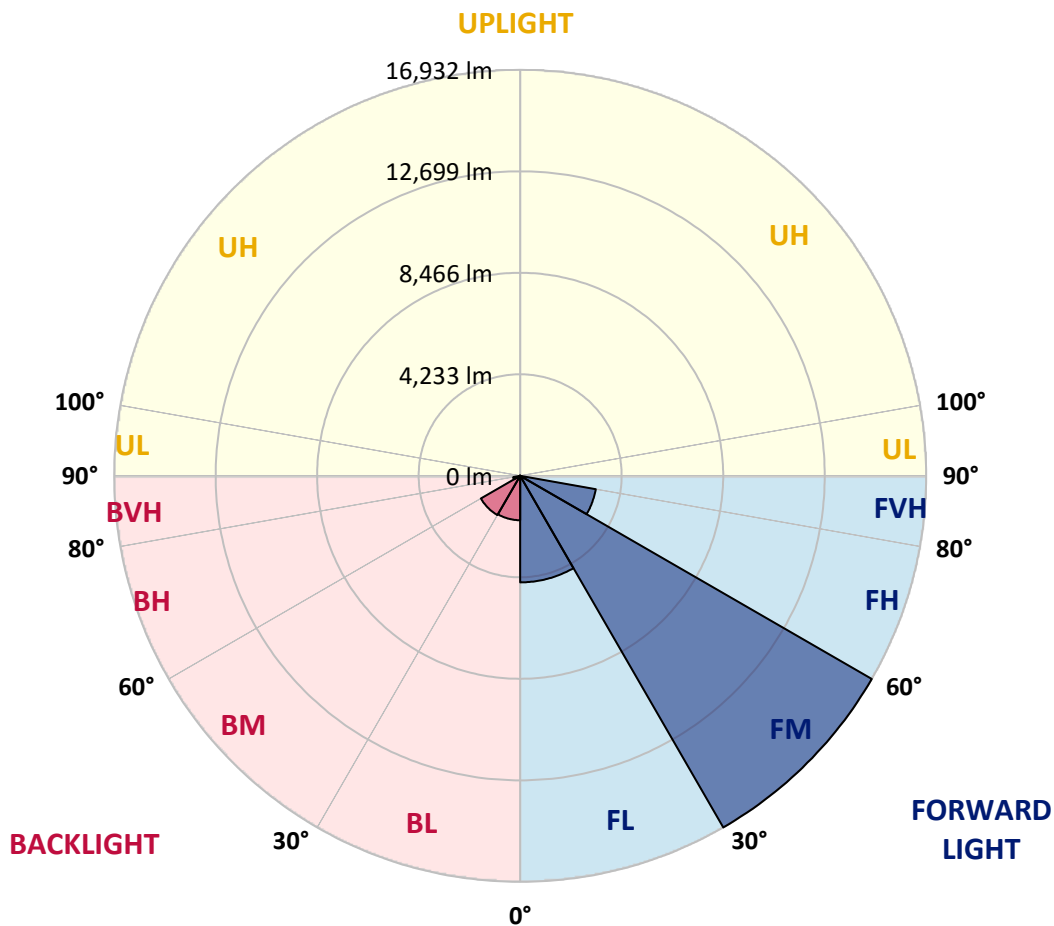
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4445.1	15.5			
FM (30°-60°)	16932.4	59.1			
FH (60°-80°)	3200.5	11.2			G2/5000
FVH (80°-90°)	11.2	0.0			G1/100
BL (0°-30°)	1850.8	6.5	B3/2500		
BM (30°-60°)	1892.4	6.6	B2/2500		
BH (60°-80°)	290.2	1.0	B1/500		G1/500
BVH (80°-90°)	13.4	0.0			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°	54°	55°	65°	75°	85°
0°	12614.5	12614.5	12614.5	12614.5	12614.5	12614.5	12614.5	12614.5	12614.5	12614.5	12614.5
2.5°	13349.4	13210.9	13221.6	13173.7	13109.8	13157.7	12950.0	12997.9	12992.6	12710.4	12524.0
5°	13013.9	13163.0	13008.6	13136.4	13013.9	13147.0	13019.2	12923.4	12769.0	12561.3	12215.2
7.5°	12444.1	12300.4	12343.0	12502.7	12529.3	12827.5	12667.8	12790.3	12726.4	12316.4	11842.4
10°	11299.3	11267.4	11480.4	11693.3	11954.3	12273.8	12396.2	12327.0	12279.1	12124.7	11491.0
12.5°	10420.7	10511.2	10505.9	10857.3	11299.3	11480.4	11799.8	11789.2	12055.4	11767.9	11160.9
15°	9584.7	9632.6	9856.3	10074.6	10564.5	11081.0	11475.0	11528.3	11847.8	11645.4	10905.3
17.5°	9073.5	9004.3	9180.0	9440.9	9941.5	10617.7	11054.4	11182.2	11618.8	11576.2	10612.4
20°	8567.7	8567.7	8711.4	9020.3	9478.2	10239.7	11017.1	10979.8	11618.8	11496.3	10298.2
22.5°	8397.3	8482.5	8519.7	8754.0	9297.2	9952.1	10857.3	10926.6	11709.3	11459.1	10159.8
25°	8631.6	8519.7	8530.4	8716.8	9227.9	9813.7	10740.2	10894.6	11874.4	11645.4	10048.0
27.5°	8668.8	8780.7	8812.6	8940.4	9281.2	9856.3	11033.1	11347.2	12284.4	12082.1	10079.9
30°	8993.7	9105.5	9100.1	9318.5	9552.8	10202.4	11688.0	11751.9	13131.1	12630.5	10276.9
32.5°	9387.7	9504.8	9542.1	9797.7	9984.1	10836.0	12486.7	12651.8	13945.8	13493.1	10793.4
35°	9877.6	9835.0	10005.4	10261.0	10660.3	11762.6	13461.2	13738.1	14824.4	14611.4	11325.9
37.5°	10489.9	10436.7	10601.8	11017.1	11560.2	12859.5	14361.1	14542.1	15463.3	15649.7	12311.0
40°	10921.2	10942.5	11443.1	12002.2	12577.3	13903.2	14930.8	15106.6	15910.6	16618.8	13056.5
42.5°	11640.1	11773.2	12374.9	13056.5	13658.2	14685.9	15394.1	15564.5	16118.3	17396.2	14062.9
45°	12683.8	12625.2	13290.8	14052.3	14717.9	15500.6	15942.6	15884.0	16240.8	18168.4	14696.6
47.5°	14025.6	14036.3	14478.2	15127.9	15820.1	16208.8	16554.9	16347.3	16496.4	18983.1	15543.2
50°	14941.5	15021.4	15378.1	16043.7	16389.9	16986.2	17428.2	17300.4	17252.5	19472.9	16075.7
52.5°	15175.8	15415.4	15607.1	16437.8	17247.2	18189.6	18754.1	19025.6	18173.7	19638.0	16751.9
55°	13407.9	13620.9	14297.2	15436.7	17572.0	20095.9	20873.4	20878.7	19377.1	20372.8	17225.9
57.5°	10718.9	10287.6	10702.9	11911.7	14856.3	20016.1	21906.4	21656.1	19978.8	19941.5	16815.8
60°	7412.2	7305.7	7332.3	7811.5	10282.3	15921.3	19520.9	19845.7	18397.3	17284.4	13312.1
62.5°	5873.3	5782.8	5665.6	5612.4	6384.5	9920.2	13770.0	14228.0	12864.8	11208.8	7891.4
65°	4600.7	4547.4	4563.4	4776.4	4771.1	5628.4	7529.3	7343.0	5878.6	4345.1	2481.4
67.5°	3104.4	3184.3	3248.2	3892.5	4222.6	3919.1	3636.9	3530.4	1911.6	804.1	548.5
70°	1746.5	1757.2	1826.4	2433.5	3205.6	3040.5	2508.0	2508.0	953.1	292.9	314.2
72.5°	953.1	921.2	857.3	1049.0	1427.1	1448.4	1118.2	974.4	282.2	191.7	175.7
75°	463.3	457.9	394.0	324.8	308.8	255.6	197.0	181.0	127.8	122.5	106.5
77.5°	95.8	90.5	47.9	47.9	53.2	58.6	74.5	74.5	90.5	90.5	74.5
80°	0.0	0.0	5.3	21.3	37.3	53.2	63.9	63.9	74.5	74.5	58.6
82.5°	0.0	0.0	5.3	16.0	31.9	47.9	58.6	63.9	74.5	79.9	63.9
85°	0.0	0.0	0.0	10.6	26.6	37.3	31.9	31.9	26.6	21.3	10.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12614.5	12614.5	12614.5	12614.5	12614.5	12614.5	12614.5	12614.5	12614.5	12614.5	12614.5
2.5°	12428.2	12417.5	12172.6	12034.1	11783.9	11565.6	11389.8	11262.0	11262.0	11182.2	11107.6
5°	12076.7	11986.2	11464.4	11128.9	10655.0	10303.6	10063.9	9877.6	9584.7	9664.6	9350.4
7.5°	11640.1	11411.1	10718.9	10207.7	9552.8	9052.2	8541.0	8088.4	7651.8	7454.8	7561.3
10°	11171.5	10772.1	9840.3	9030.9	8216.2	7300.4	6704.0	5979.8	5532.5	5505.9	5388.7
12.5°	10676.3	10223.7	9089.5	7971.3	6901.0	5798.7	4888.2	4211.9	3908.4	3573.0	3636.9
15°	10303.6	9632.6	8253.5	6906.3	5484.6	4371.7	3455.8	2934.0	2646.4	2566.6	2539.9
17.5°	9898.9	9180.0	7401.5	5772.1	4302.5	3147.0	2486.7	2236.4	2124.6	2124.6	2108.6
20°	9478.2	8668.8	6554.9	4717.8	3226.9	2348.3	1991.5	1911.6	1906.3	1901.0	1901.0
22.5°	9201.3	8083.1	5788.1	3748.7	2433.5	1879.7	1730.6	1698.6	1719.9	1783.8	1783.8
25°	8908.5	7518.7	4941.5	2891.4	1885.0	1613.4	1528.2	1549.5	1602.8	1661.3	1640.1
27.5°	8610.3	7151.3	4142.7	2268.4	1544.2	1411.1	1379.1	1427.1	1485.6	1538.9	1522.9
30°	8541.0	6757.2	3386.6	1719.9	1325.9	1230.0	1251.3	1293.9	1352.5	1373.8	1395.1
32.5°	8647.5	6448.4	2774.2	1411.1	1155.5	1128.9	1128.9	1150.2	1187.4	1235.4	1219.4
35°	8951.1	6272.7	2193.8	1224.7	1059.6	1033.0	1027.7	1049.0	1070.3	1086.3	1070.3
37.5°	9414.3	6134.2	1794.5	1086.3	995.7	953.1	942.5	937.2	958.5	963.8	974.4
40°	10005.4	6208.8	1522.9	1001.1	931.8	883.9	852.0	852.0	852.0	867.9	873.3
42.5°	10644.4	6309.9	1315.2	953.1	873.3	814.7	782.8	772.1	782.8	804.1	798.7
45°	11315.3	6507.0	1182.1	878.6	820.0	745.5	702.9	692.2	718.9	761.5	756.1
47.5°	11943.6	6789.2	1080.9	830.7	766.8	697.6	644.3	633.7	681.6	740.2	745.5
50°	12571.9	7279.1	1043.7	793.4	729.5	649.6	601.7	591.1	644.3	718.9	734.8
52.5°	13296.1	7806.2	1017.0	745.5	686.9	612.4	559.1	548.5	607.0	702.9	708.2
55°	13770.0	8253.5	995.7	660.3	607.0	553.8	511.2	505.9	569.8	655.0	676.3
57.5°	13216.3	7630.5	921.2	575.1	516.5	489.9	452.6	452.6	505.9	585.7	601.7
60°	10021.3	5021.3	655.0	463.3	436.6	420.7	404.7	404.7	447.3	505.9	511.2
62.5°	5868.0	2705.0	420.7	372.7	372.7	356.8	330.1	330.1	372.7	404.7	410.0
65°	1741.2	867.9	340.8	319.5	314.2	287.5	260.9	255.6	287.5	303.5	298.2
67.5°	500.5	399.4	282.2	266.2	260.9	218.3	202.3	197.0	202.3	191.7	186.4
70°	298.2	271.6	218.3	223.6	197.0	159.7	143.8	138.4	127.8	111.8	101.2
72.5°	165.1	165.1	159.7	170.4	138.4	106.5	90.5	74.5	58.6	47.9	42.6
75°	101.2	106.5	111.8	117.1	90.5	69.2	58.6	37.3	21.3	10.6	10.6
77.5°	69.2	74.5	79.9	85.2	74.5	63.9	47.9	26.6	5.3	0.0	0.0
80°	53.2	58.6	69.2	74.5	79.9	85.2	63.9	26.6	5.3	0.0	0.0
82.5°	58.6	63.9	79.9	74.5	74.5	74.5	58.6	26.6	5.3	0.0	0.0
85°	10.6	16.0	26.6	26.6	37.3	47.9	37.3	10.6	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)