

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: P532220

Luminaire Tested: **GALN-SA7C-740-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532220
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-SA7C-740-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA 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: 43031 lumens
Efficiency: N/A
Efficacy: 114.1 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

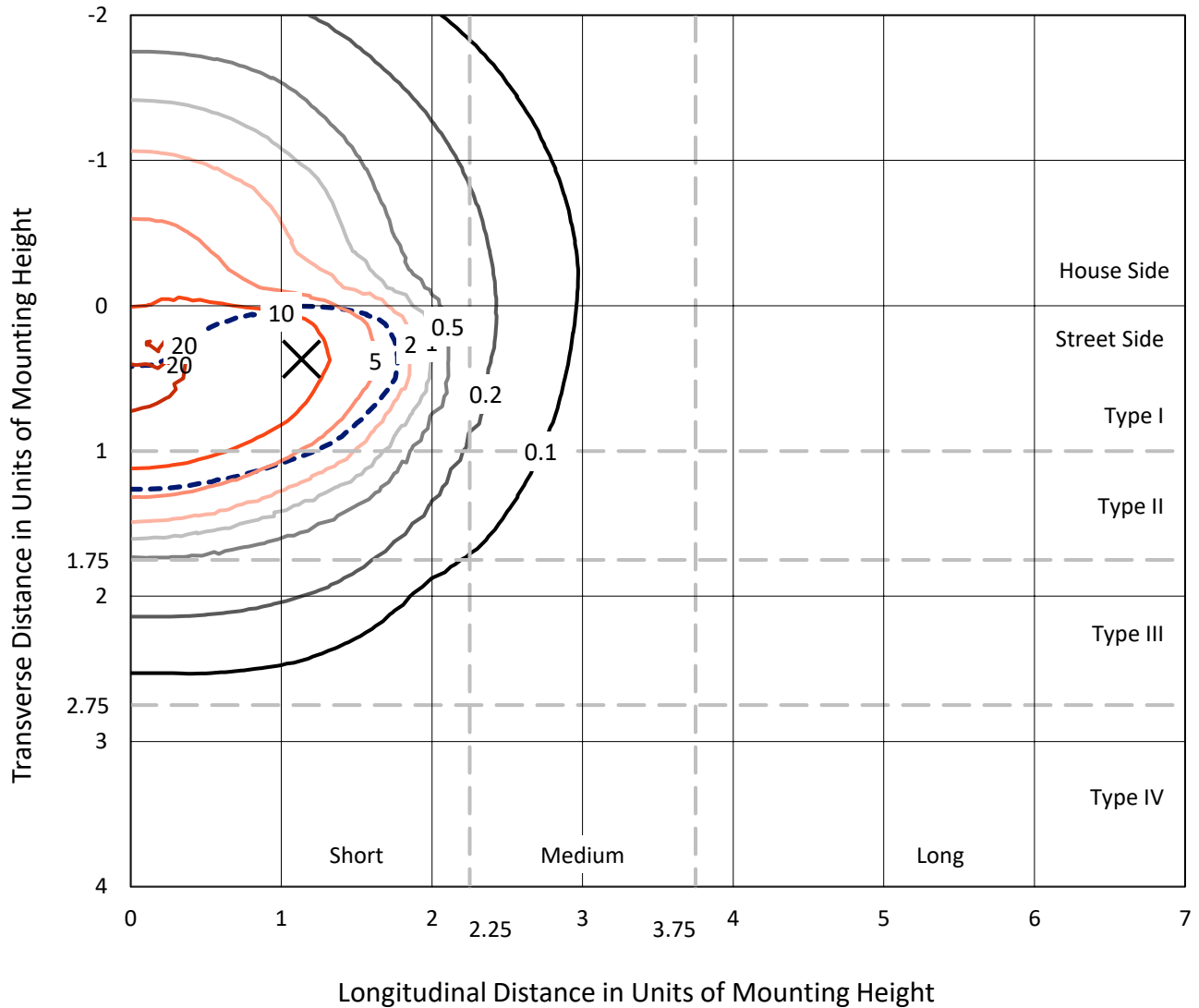
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

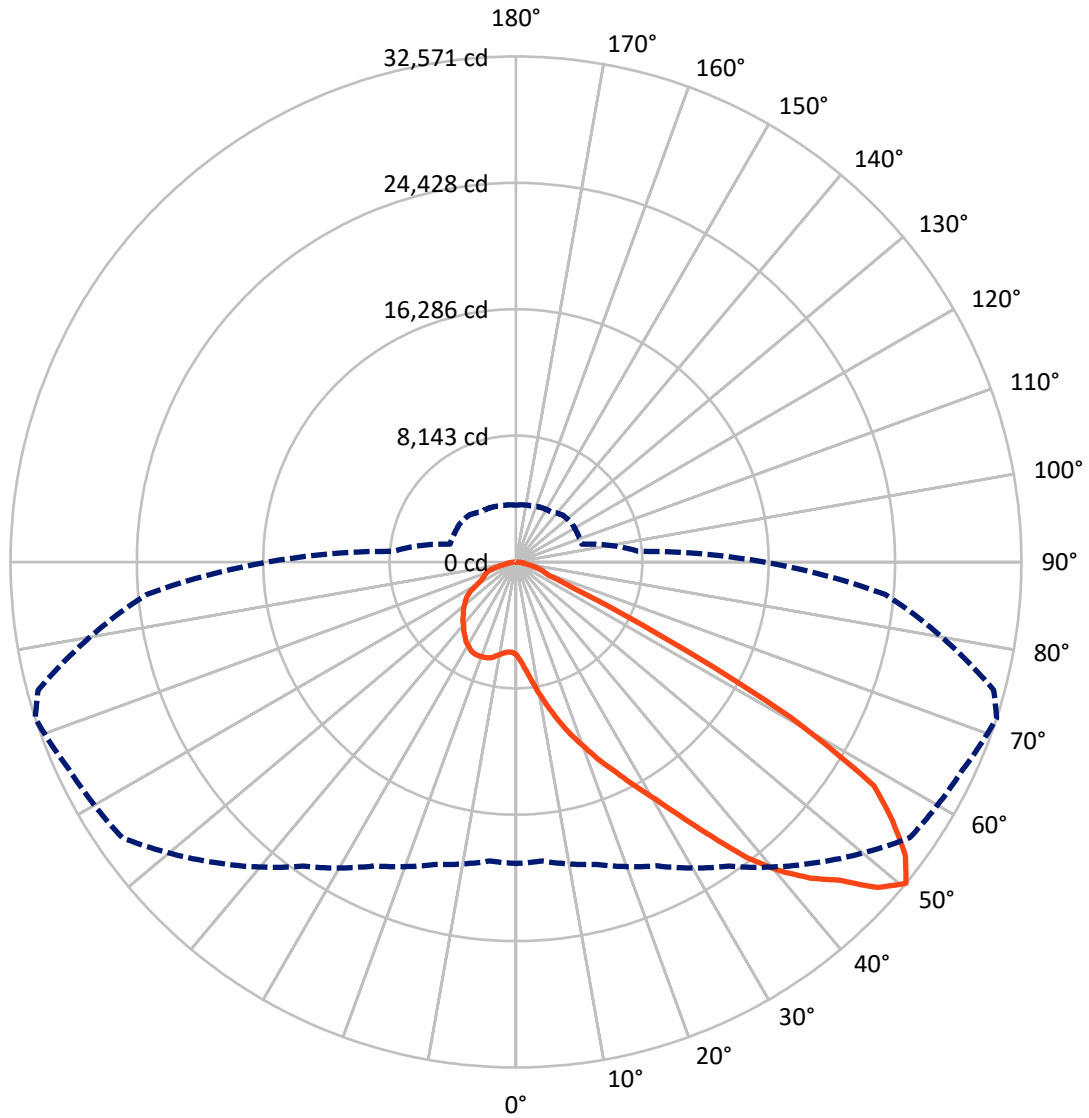
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.4 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	9858.7	0.0	9858.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	33172.3	0.0	33172.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	43031.0	0.0	43031.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	704.6	1.6
10°-20°	2634.1	6.1
20°-30°	5107.3	11.9
30°-40°	8461.0	19.7
40°-50°	11838.7	27.5
50°-60°	9987.5	23.2
60°-70°	3044.2	7.1
70°-80°	1068.0	2.5
80°-90°	185.7	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°	43031.0	100.0
0°-180°	43031.0	100.0

Coefficient of Utilization



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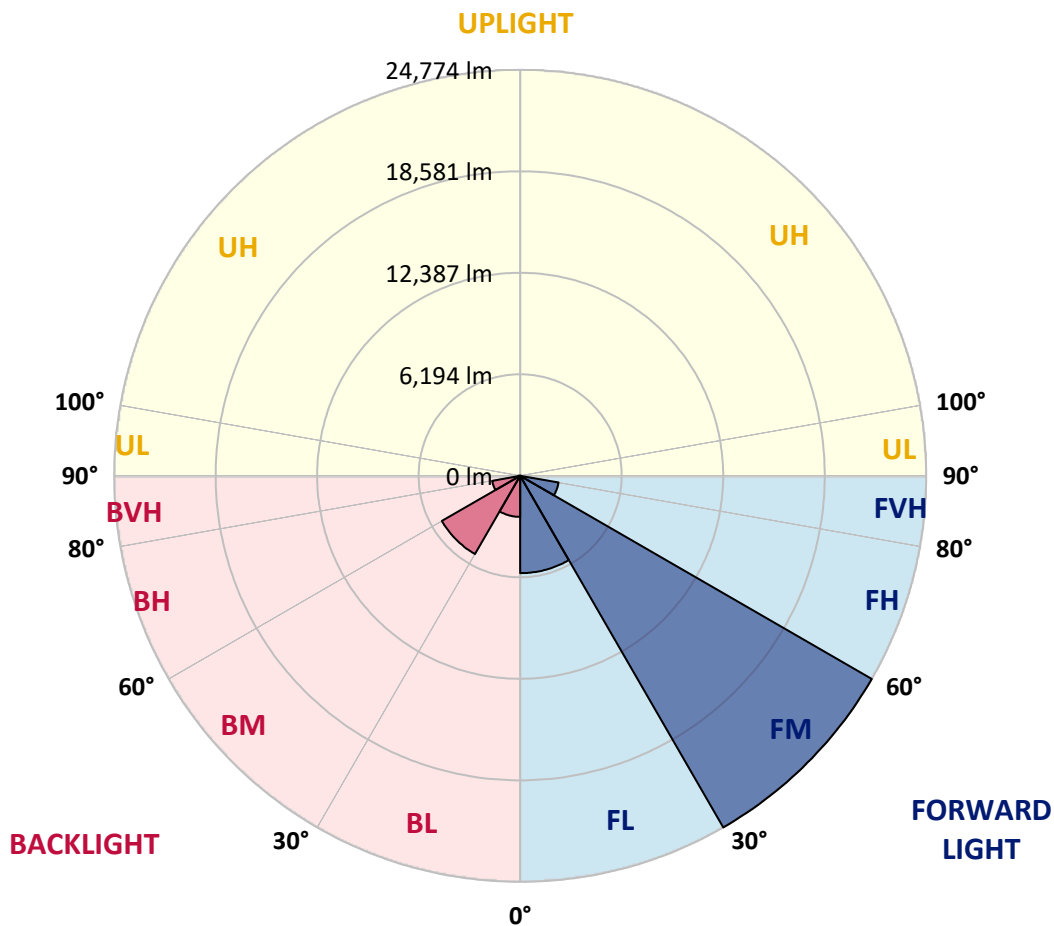
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5939.8	13.8			
FM (30°-60°)	24774.1	57.6			
FH (60°-80°)	2375.3	5.5			G2/5000
FVH (80°-90°)	83.2	0.2			G1/100
BL (0°-30°)	2506.1	5.8	B4/5000		
BM (30°-60°)	5513.1	12.8	B4/8500		
BH (60°-80°)	1736.9	4.0	B3/2500		G3/2500
BVH (80°-90°)	102.5	0.2			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°	72°	75°	85°
0°	5990.3	5990.3	5990.3	5990.3	5990.3	5990.3	5990.3	5990.3	5990.3	5990.3	5990.3
2.5°	7704.8	7656.9	7513.1	7465.2	7294.8	6986.0	6879.5	6565.3	6432.2	6309.8	6166.0
5°	9744.2	9520.6	9504.6	9233.0	8839.0	8610.0	7928.5	7470.5	7049.9	6836.9	6442.9
7.5°	11043.4	11048.7	11048.7	10825.1	10510.9	9930.6	9318.2	8492.9	7859.3	7545.1	6874.2
10°	12278.7	12172.3	12113.7	12092.4	11879.4	11315.0	10660.0	9637.7	8769.8	8402.4	7199.0
12.5°	13152.0	13061.5	13194.6	13125.4	12971.0	12603.6	11985.9	10819.8	9733.5	9238.3	7720.8
15°	13567.3	13631.2	13737.7	13929.4	13860.2	13721.7	13040.2	12033.8	10771.9	10212.8	8184.1
17.5°	14206.3	14030.6	14158.4	14398.0	14589.7	14525.8	14137.1	12912.4	11799.5	11112.6	8807.0
20°	14653.6	14552.4	14616.3	14893.2	15036.9	15399.0	15196.7	14062.5	12784.6	12060.4	9541.9
22.5°	15931.5	15782.4	15574.7	15617.3	15670.6	15926.2	15974.1	15324.5	13929.4	13162.6	10239.4
25°	17507.6	17369.2	17124.2	16874.0	16719.5	16671.6	16836.7	16314.9	15026.3	14232.9	10990.2
27.5°	19243.4	19009.2	18854.7	18338.3	17922.9	17859.0	17779.2	17496.9	16325.5	15468.2	11836.8
30°	20931.4	20745.0	20537.3	19712.0	19280.7	19211.5	18817.5	18897.3	17736.6	16783.4	12795.2
32.5°	22209.3	22225.3	21751.4	21128.4	20723.7	20356.3	20212.5	20441.5	19547.0	18780.2	13865.5
35°	23242.3	23290.2	22837.6	22273.2	21836.6	22092.2	22028.3	22134.8	21708.8	20771.6	15111.5
37.5°	24248.7	24009.1	23524.5	23252.9	23024.0	23444.6	23987.8	24078.3	24158.1	23055.9	16559.8
40°	24413.7	24435.0	24152.8	24344.5	24057.0	24690.6	25952.6	25835.4	26160.2	25196.5	18130.6
42.5°	24179.4	24227.4	24339.2	24610.7	25303.0	26064.4	27938.7	27459.5	27853.5	26996.2	19658.8
45°	23796.1	23599.0	23737.5	24770.5	25968.5	27661.8	29754.4	29381.7	29253.9	28535.0	21479.8
47.5°	21964.4	22166.7	22598.0	23870.6	25670.4	27938.7	31043.0	30957.8	31341.2	30835.3	23135.8
50°	19424.5	19344.6	20175.3	21607.6	23929.2	27395.6	30973.8	31745.8	32571.2	31868.3	23875.9
52.5°	14547.1	14973.0	15686.6	17465.0	20777.0	24435.0	29461.5	30750.1	31421.0	31271.9	23279.6
55°	9195.7	9323.5	9754.8	11868.7	14850.6	19610.9	25255.0	28242.2	29440.2	29999.3	22731.1
57.5°	4467.4	4227.8	4755.0	6453.5	8578.1	13189.3	19477.7	24600.1	27203.9	28215.6	21538.4
60°	2332.2	2422.7	2630.4	3237.4	4435.5	6847.6	12140.3	16394.7	20372.3	21927.1	16325.5
62.5°	1932.9	1964.8	2103.3	2406.8	2949.9	3940.3	6197.9	7992.4	10388.5	11788.9	9286.3
65°	1640.0	1656.0	1805.1	2007.4	2353.5	2774.2	3189.5	3338.6	4041.4	4147.9	3301.3
67.5°	1368.4	1384.4	1544.2	1735.9	1959.5	2071.3	2177.8	2167.2	2247.0	2215.1	2209.7
70°	1054.3	1070.3	1235.3	1437.7	1549.5	1485.6	1815.7	1890.3	1922.2	1948.8	1991.4
72.5°	761.4	793.4	921.2	1064.9	1006.4	1155.5	1496.2	1608.1	1650.7	1666.6	1719.9
75°	553.8	564.4	596.4	553.8	639.0	804.0	1054.3	1192.7	1246.0	1262.0	1341.8
77.5°	244.9	250.3	255.6	319.5	410.0	500.5	628.3	740.1	814.7	836.0	857.3
80°	127.8	133.1	165.1	218.3	292.9	367.4	457.9	521.8	569.7	575.1	596.4
82.5°	79.9	85.2	117.1	154.4	207.7	271.6	335.5	388.7	426.0	431.3	436.6
85°	37.3	47.9	69.2	95.8	138.4	175.7	181.0	154.4	165.1	170.4	159.7
87.5°	10.6	16.0	21.3	16.0	21.3	21.3	26.6	31.9	31.9	31.9	37.3
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°	5990.3	5990.3	5990.3	5990.3	5990.3	5990.3	5990.3	5990.3	5990.3	5990.3	5990.3
2.5°	6086.1	6038.2	5851.8	5782.6	5601.6	5633.5	5537.7	5532.4	5511.1	5505.7	5500.4
5°	6235.2	6086.1	5862.5	5692.1	5590.9	5580.3	5511.1	5511.1	5532.4	5548.3	5511.1
7.5°	6480.2	6309.8	5931.7	5772.0	5681.4	5665.5	5617.6	5580.3	5628.2	5612.2	5569.6
10°	6762.4	6464.2	6064.8	5926.4	5777.3	5740.0	5740.0	5756.0	5676.1	5702.7	5660.2
12.5°	7076.5	6677.2	6235.2	6075.5	5899.8	5878.5	5867.8	5750.7	5793.3	5772.0	5665.5
15°	7475.9	6922.1	6453.5	6182.0	6032.9	5937.0	5798.6	5777.3	5750.7	5697.4	5649.5
17.5°	7907.2	7188.3	6554.7	6213.9	5990.3	5921.1	5814.6	5702.7	5622.9	5633.5	5596.3
20°	8274.6	7433.3	6592.0	6245.9	5958.3	5825.2	5660.2	5590.9	5505.7	5500.4	5495.1
22.5°	8711.2	7763.4	6645.2	6160.7	5862.5	5724.0	5612.2	5489.8	5431.2	5356.6	5393.9
25°	9233.0	7891.2	6655.9	6112.8	5793.3	5548.3	5489.8	5356.6	5335.3	5228.9	5250.1
27.5°	9611.1	7960.4	6570.7	5963.7	5633.5	5447.2	5340.7	5244.8	5207.6	5127.7	5106.4
30°	10116.9	8066.9	6389.6	5777.3	5473.8	5266.1	5202.2	5180.9	5074.4	4989.2	4978.6
32.5°	10692.0	8136.1	6272.5	5585.6	5308.7	5149.0	5180.9	5079.8	4946.6	4872.1	4850.8
35°	11149.9	8162.8	5979.6	5367.3	5196.9	5095.7	5058.5	5037.2	4845.5	4776.3	4723.0
37.5°	11847.4	8104.2	5734.7	5212.9	5074.4	5037.2	5005.2	4861.4	4643.1	4542.0	4467.4
40°	12662.1	8088.2	5420.5	4994.6	4957.3	4999.9	4904.0	4680.4	4376.9	4265.1	4211.8
42.5°	13444.9	8200.0	5223.5	4877.4	4829.5	4845.5	4712.4	4376.9	4227.8	4163.9	4078.7
45°	14754.7	8434.3	4898.7	4696.4	4675.1	4664.4	4504.7	4153.3	4068.1	3988.2	3972.2
47.5°	15936.8	8279.9	4691.1	4510.0	4531.3	4472.7	4132.0	4020.1	3924.3	3844.4	3817.8
50°	16006.0	7912.5	4398.2	4366.3	4371.6	4270.4	3945.6	3871.1	3748.6	3695.3	3658.1
52.5°	15644.0	7310.8	4126.6	4137.3	4153.3	3988.2	3716.6	3663.4	3562.2	3487.7	3466.4
55°	14626.9	6373.7	3860.4	3903.0	3945.6	3631.4	3546.2	3413.1	3333.3	3226.8	3232.1
57.5°	12885.8	5133.0	3487.7	3556.9	3647.4	3301.3	3237.4	3072.3	2955.2	2870.0	2859.4
60°	8636.7	3652.7	2928.6	2955.2	3157.5	3019.1	3013.8	2848.7	2689.0	2614.4	2571.8
62.5°	5095.7	2790.1	2529.2	2502.6	2497.3	2577.2	2710.3	2651.7	2444.0	2300.3	2342.9
65°	2667.7	2412.1	2353.5	2263.0	2209.7	2188.4	2289.6	2316.2	2177.8	2023.4	2012.7
67.5°	2241.7	2241.7	2193.8	2161.8	2087.3	1996.8	1932.9	1847.7	1826.4	1783.8	1730.5
70°	2039.4	2092.6	2076.6	2002.1	1938.2	1837.0	1672.0	1533.5	1400.4	1352.5	1384.4
72.5°	1778.4	1831.7	1831.7	1794.4	1709.2	1554.8	1395.1	1235.3	1123.5	1038.3	1027.7
75°	1368.4	1395.1	1459.0	1416.4	1304.6	1208.7	1043.6	878.6	772.1	692.2	676.2
77.5°	873.3	915.8	915.8	910.5	830.7	740.1	633.6	516.5	436.6	378.1	362.1
80°	580.4	607.0	628.3	607.0	553.8	484.5	404.7	324.8	266.2	218.3	207.7
82.5°	426.0	457.9	473.9	452.6	399.4	346.1	287.5	229.0	170.4	133.1	122.5
85°	165.1	170.4	191.7	229.0	223.6	218.3	175.7	127.8	95.8	69.2	63.9
87.5°	42.6	37.3	42.6	42.6	37.3	31.9	31.9	31.9	31.9	16.0	21.3
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)