

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: P533860

Luminaire Tested: **GALN-SA9B-740-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-740-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43981 lumens
Efficiency: N/A
Efficacy: 120.8 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

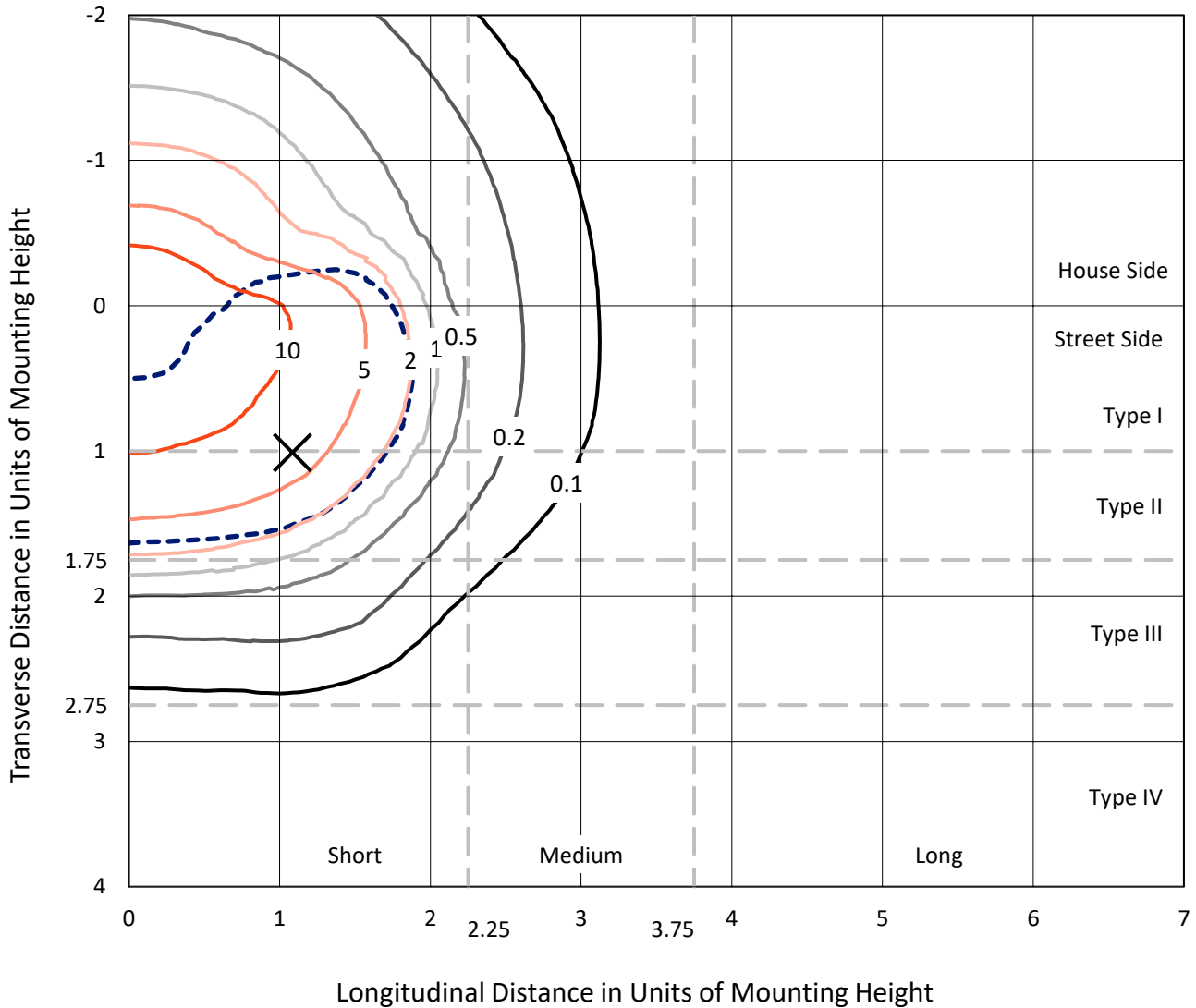
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

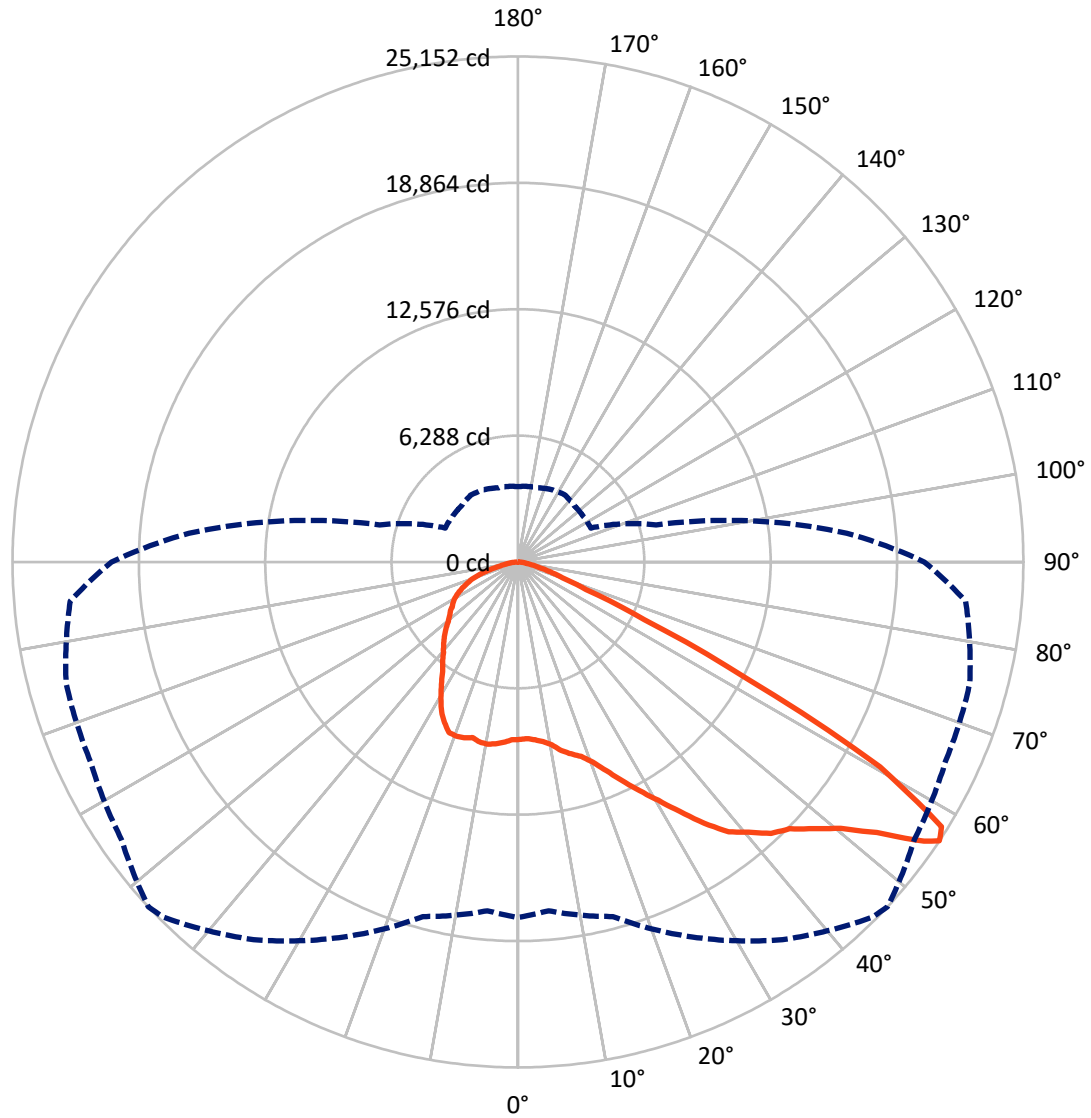
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13937.0	0.0	13937.0
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	30043.9	0.0	30043.9
	% Fixture	68.3	0.0	68.3
Total	Lumens	43981.0	0.0	43981.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	860.8	2.0
10°-20°	2715.4	6.2
20°-30°	4800.1	10.9
30°-40°	7209.7	16.4
40°-50°	9894.6	22.5
50°-60°	11788.0	26.8
60°-70°	5044.6	11.5
70°-80°	1427.6	3.2
80°-90°	240.2	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°	43981.0	100.0
0°-180°	43981.0	100.0

Coefficient of Utilization

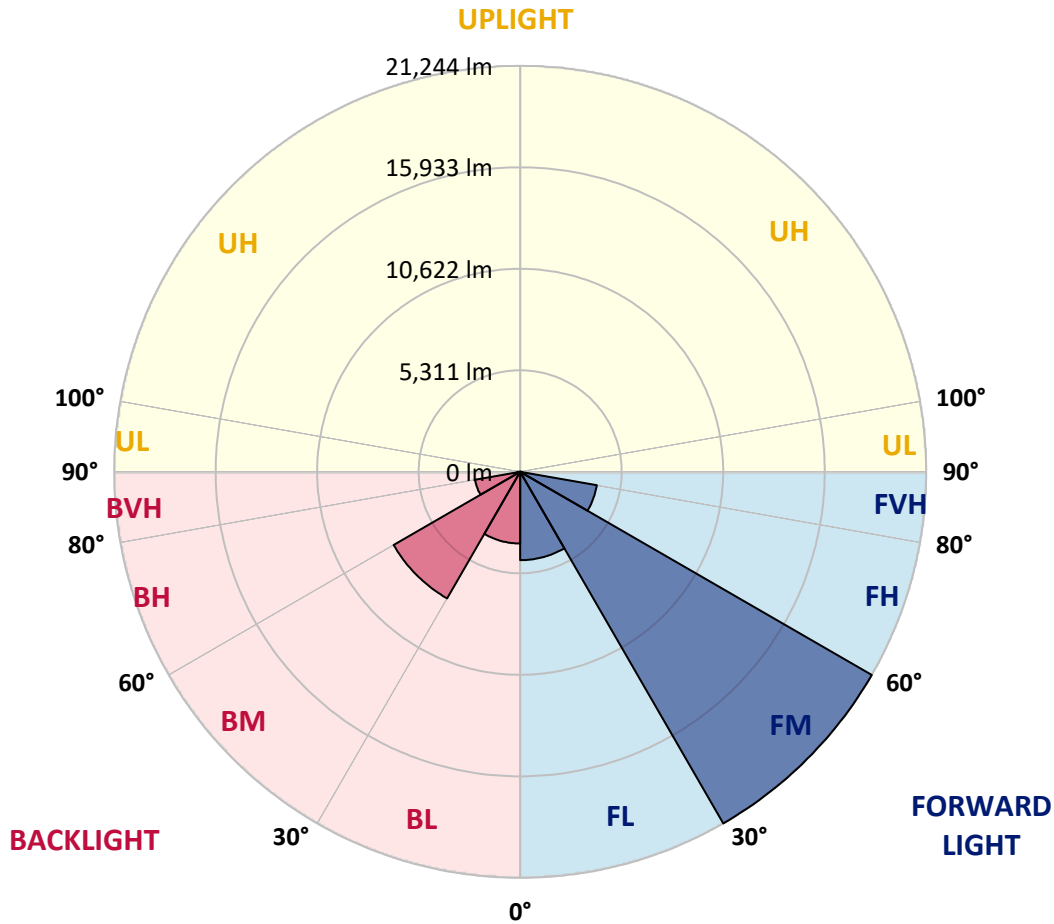


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4623.9	10.5			
FM (30°-60°)	21243.8	48.3			
FH (60°-80°)	4074.2	9.3			G2/5000
FVH (80°-90°)	102.0	0.2			G2/225
BL (0°-30°)	3752.4	8.5	B4/5000		
BM (30°-60°)	7648.4	17.4	B4/8500		
BH (60°-80°)	2397.9	5.5	B3/2500		G3/2500
BVH (80°-90°)	138.3	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°	47°	55°	65°	75°	85°
0°	8834.4	8834.4	8834.4	8834.4	8834.4	8834.4	8834.4	8834.4	8834.4	8834.4	8834.4
2.5°	8800.8	8784.0	8772.7	8862.5	8828.8	8834.4	8800.8	8834.4	8856.9	8806.4	8879.3
5°	8784.0	8834.4	8789.6	8817.6	8890.5	8868.1	8890.5	8957.8	8941.0	8924.2	8901.8
7.5°	8941.0	8946.6	8980.3	8991.5	9013.9	8991.5	9025.2	9086.9	9070.0	8974.7	8985.9
10°	9165.4	9176.6	9182.2	9243.9	9283.2	9288.8	9249.5	9193.4	9187.8	9316.8	9227.1
12.5°	9423.4	9395.4	9462.7	9485.1	9530.0	9580.5	9630.9	9513.2	9586.1	9591.7	9485.1
15°	9799.2	9827.3	9748.7	9748.7	9765.6	9771.2	9911.4	9855.3	9844.1	9782.4	9827.3
17.5°	10360.1	10169.4	10163.8	10085.3	10074.1	10118.9	10169.4	10214.3	10365.8	10242.3	10001.2
20°	10769.6	10814.5	10651.8	10556.5	10573.3	10674.3	10623.8	10825.7	10932.3	10730.3	10494.8
22.5°	11493.2	11341.7	11381.0	11167.9	11184.7	11291.3	11285.7	11493.2	11554.9	11235.2	10893.0
25°	11981.2	11941.9	11975.6	11807.3	11829.7	11913.9	12048.5	12390.7	12289.7	11936.3	11145.4
27.5°	12693.6	12615.0	12587.0	12525.3	12502.8	12727.2	12884.3	13248.9	13175.9	12659.9	11594.2
30°	13422.7	13372.3	13400.3	13147.9	13237.6	13714.4	13759.3	14258.5	14224.9	13316.2	12093.4
32.5°	13927.6	13955.6	14006.1	13865.9	14264.1	14645.5	14797.0	15363.5	15391.6	14443.6	13058.2
35°	14740.9	14645.5	14673.6	14836.3	15021.4	15716.9	15963.7	16339.5	16575.1	15627.2	13983.7
37.5°	15251.3	15352.3	15234.5	15492.5	15974.9	16810.7	17035.1	17422.1	17668.9	16793.9	15245.7
40°	16047.8	15885.2	15969.3	16154.4	16648.0	17736.2	17674.5	18072.8	18151.3	17786.7	16423.7
42.5°	16906.0	16827.5	16709.7	17130.4	17545.5	18336.4	18459.8	18274.7	18672.9	18757.1	18106.4
45°	17932.5	18027.9	18044.7	18055.9	18420.5	19110.5	18942.2	18779.5	19239.5	19850.9	19149.7
47.5°	18886.1	18583.2	18801.9	19104.8	19620.9	19626.5	19822.8	19435.8	19923.8	20467.9	20092.1
50°	19205.8	19060.0	19351.6	19923.8	20720.3	20804.4	20826.9	20277.2	20529.6	20961.5	20417.4
52.5°	19082.4	19031.9	19777.9	20664.2	21830.9	22257.2	22369.4	21690.7	21830.9	21634.6	21135.4
55°	18493.4	18644.9	19396.5	21202.7	22992.0	24310.2	24523.3	23665.1	22773.2	22924.7	22375.0
56°	17685.7	17422.1	18263.5	20591.3	22941.5	24977.6	25151.5	24080.2	23474.4	23278.1	22363.8
57.5°	15004.5	14662.4	15767.4	18527.1	21668.2	24725.2	24854.2	24254.1	23356.6	22958.3	20731.5
60°	8784.0	8952.2	10354.5	12777.7	16715.3	20271.5	20703.5	21141.0	20540.8	18757.1	15430.8
62.5°	4240.5	4134.0	5138.0	7325.6	10186.3	12940.4	12811.3	14039.8	14712.9	13327.4	9743.1
65°	2221.2	2210.0	2804.6	3999.3	5598.0	6798.3	6916.1	7578.0	8503.5	6865.6	4947.3
67.5°	1632.3	1677.1	1974.4	2810.2	3601.1	3674.0	3657.2	3988.1	4077.9	3449.6	3040.2
70°	1278.9	1301.3	1520.1	2137.1	2681.2	2400.7	2350.2	2389.5	2653.1	2765.3	2630.7
72.5°	925.5	948.0	1133.1	1441.6	1677.1	1637.9	1671.5	1890.3	2215.6	2333.4	2193.2
75°	617.0	633.8	734.8	880.6	992.8	1071.4	1133.1	1385.5	1688.4	1755.7	1688.4
77.5°	426.3	443.1	510.4	622.6	633.8	684.3	706.8	824.5	1009.7	1093.8	1048.9
80°	241.2	241.2	274.8	319.7	392.6	460.0	471.2	566.5	650.7	706.8	718.0
82.5°	112.2	117.8	145.8	196.3	258.0	319.7	330.9	392.6	454.3	510.4	527.3
85°	56.1	61.7	84.1	117.8	157.1	190.7	185.1	190.7	201.9	190.7	196.3
87.5°	16.8	16.8	22.4	28.0	22.4	28.0	28.0	33.7	39.3	44.9	50.5
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°	8834.4	8834.4	8834.4	8834.4	8834.4	8834.4	8834.4	8834.4	8834.4	8834.4	8834.4
2.5°	8884.9	8901.8	8789.6	8896.1	8856.9	8851.3	8929.8	8918.6	8946.6	8935.4	8868.1
5°	8890.5	8851.3	8969.1	8862.5	8913.0	9019.5	8946.6	9114.9	9030.8	9086.9	8963.5
7.5°	9064.4	9075.6	9053.2	9098.1	9075.6	9126.1	9086.9	9126.1	9058.8	9064.4	9176.6
10°	9215.9	9182.2	9221.5	9165.4	9204.7	9187.8	9098.1	9070.0	9092.5	9064.4	9137.3
12.5°	9496.3	9434.6	9406.6	9339.3	9294.4	9126.1	8985.9	8907.4	9013.9	9030.8	8997.1
15°	9782.4	9788.0	9659.0	9507.5	9227.1	8974.7	9008.3	9036.4	9036.4	9081.3	8997.1
17.5°	9961.9	9961.9	9844.1	9541.2	9255.1	9109.3	9075.6	8985.9	8907.4	8896.1	8890.5
20°	10276.0	10180.6	9911.4	9535.6	9243.9	9176.6	8924.2	8711.0	8548.4	8492.3	8486.7
22.5°	10635.0	10393.8	10018.0	9546.8	9227.1	9131.7	8660.6	8340.8	8049.2	7925.8	7942.6
25°	10965.9	10578.9	10079.7	9496.3	9165.4	8705.4	8178.2	7735.0	7432.2	7331.2	7280.7
27.5°	11195.9	10775.2	10079.7	9541.2	8935.4	8228.7	7690.2	7123.6	6860.0	6792.7	6803.9
30°	11504.4	11022.0	10253.6	9445.8	8475.5	7611.6	6966.6	6596.4	6439.3	6383.2	6422.5
32.5°	12228.0	11667.1	10494.8	9215.9	7931.4	6994.6	6473.0	6265.4	6035.5	5923.3	5884.0
35°	13013.3	12278.5	10730.3	8828.8	7320.0	6433.7	6108.4	5917.7	5642.8	5519.4	5541.9
37.5°	14123.9	13063.8	10747.2	8189.4	6658.1	6119.6	5822.3	5525.0	5300.7	5110.0	5053.9
40°	15621.5	14135.1	10707.9	7516.3	6125.2	5749.4	5530.6	5160.4	4908.0	4773.4	4801.5
42.5°	16939.7	15391.6	10545.2	6753.4	5642.8	5497.0	5250.2	4885.6	4638.8	4498.6	4487.3
45°	18050.3	16317.1	10236.7	6102.8	5239.0	5216.5	4930.5	4650.0	4453.7	4324.7	4380.8
47.5°	19076.8	17063.1	9771.2	5452.1	4868.8	4913.6	4638.8	4464.9	4341.5	4223.7	4218.1
50°	19447.0	17051.9	9361.7	4913.6	4571.5	4549.0	4537.8	4352.7	4223.7	4122.7	4167.6
52.5°	20064.0	17242.6	8918.6	4543.4	4302.2	4307.8	4347.1	4212.5	4066.7	4004.9	4061.0
55°	20950.3	17270.6	7942.6	4111.5	4077.9	4117.1	4117.1	4027.4	3904.0	3853.5	3825.5
56°	20226.7	16434.9	7123.6	3999.3	3965.7	3965.7	4072.3	3971.3	3819.8	3780.6	3746.9
57.5°	18656.1	14398.7	5962.6	3864.7	3814.2	3892.8	3948.9	3842.3	3702.1	3646.0	3679.6
60°	12867.4	9743.1	4481.7	3573.0	3573.0	3702.1	3746.9	3589.9	3528.2	3522.6	3477.7
62.5°	7510.7	5676.5	3505.7	3309.4	3320.6	3427.2	3460.9	3371.1	3292.6	3387.9	3432.8
65°	3982.5	3387.9	3006.5	3029.0	3034.6	3118.7	3264.5	3258.9	3253.3	3281.4	3287.0
67.5°	2883.1	2815.8	2731.7	2709.2	2720.4	2782.1	2928.0	3040.2	3034.6	2967.3	2916.8
70°	2569.0	2473.6	2423.2	2428.8	2383.9	2456.8	2574.6	2647.5	2518.5	2440.0	2406.3
72.5°	2137.1	2109.0	2075.4	2081.0	1991.3	1974.4	1839.8	1839.8	1806.2	1783.7	1823.0
75°	1632.3	1621.1	1637.9	1609.8	1514.5	1413.5	1335.0	1262.1	1149.9	1105.0	1082.6
77.5°	1032.1	1065.7	1105.0	1043.3	1004.0	931.1	852.6	779.7	689.9	639.4	639.4
80°	701.1	729.2	757.2	746.0	701.1	633.8	572.1	493.6	431.9	392.6	387.0
82.5°	532.9	555.3	594.6	549.7	504.8	448.7	398.3	342.2	286.1	241.2	241.2
85°	190.7	218.8	241.2	263.6	280.5	286.1	246.8	201.9	162.7	129.0	123.4
87.5°	50.5	56.1	61.7	56.1	56.1	56.1	61.7	56.1	50.5	39.3	39.3
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)