

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: P531192

Luminaire Tested: **GALN-SA6C-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-727-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31461 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

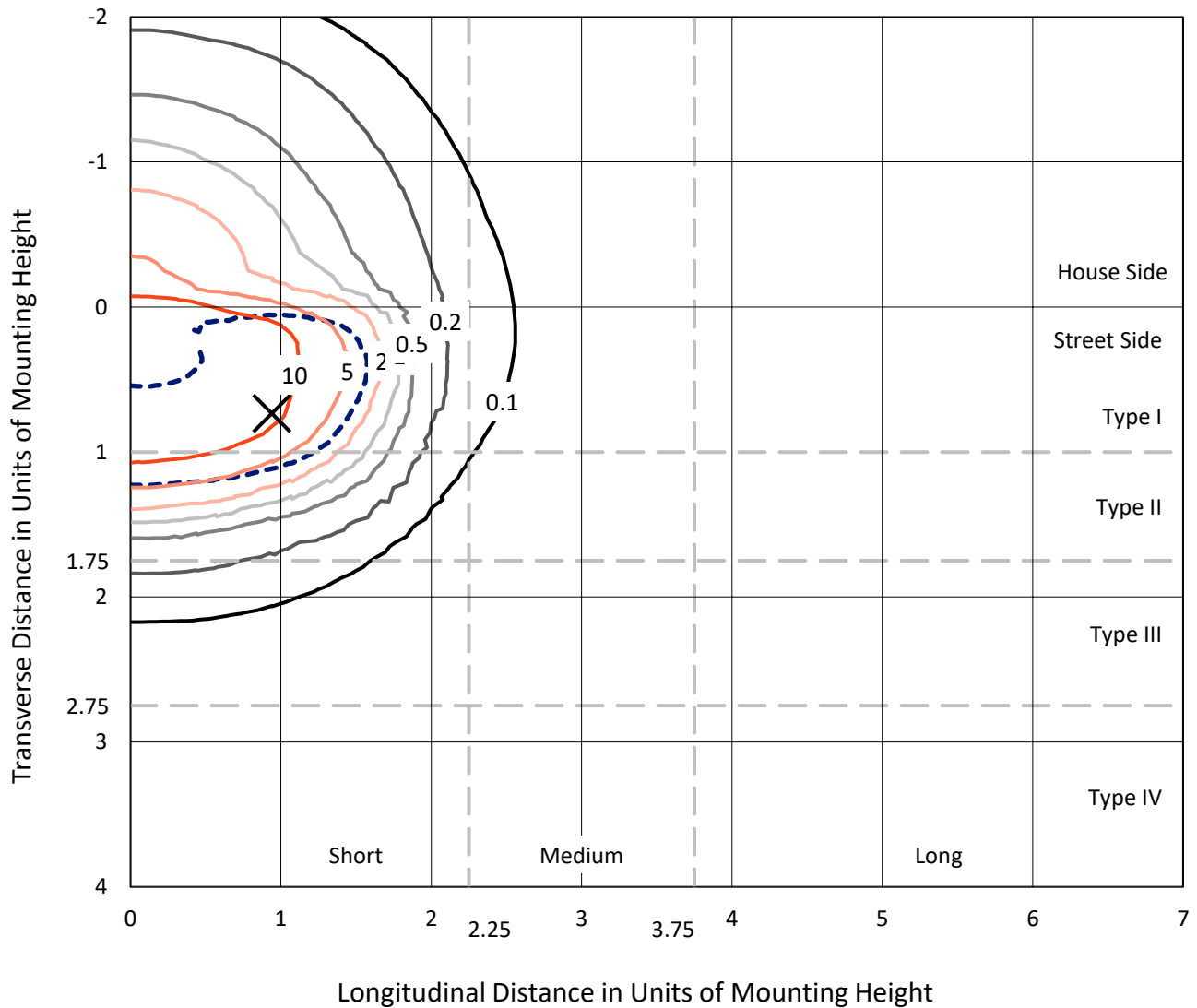
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

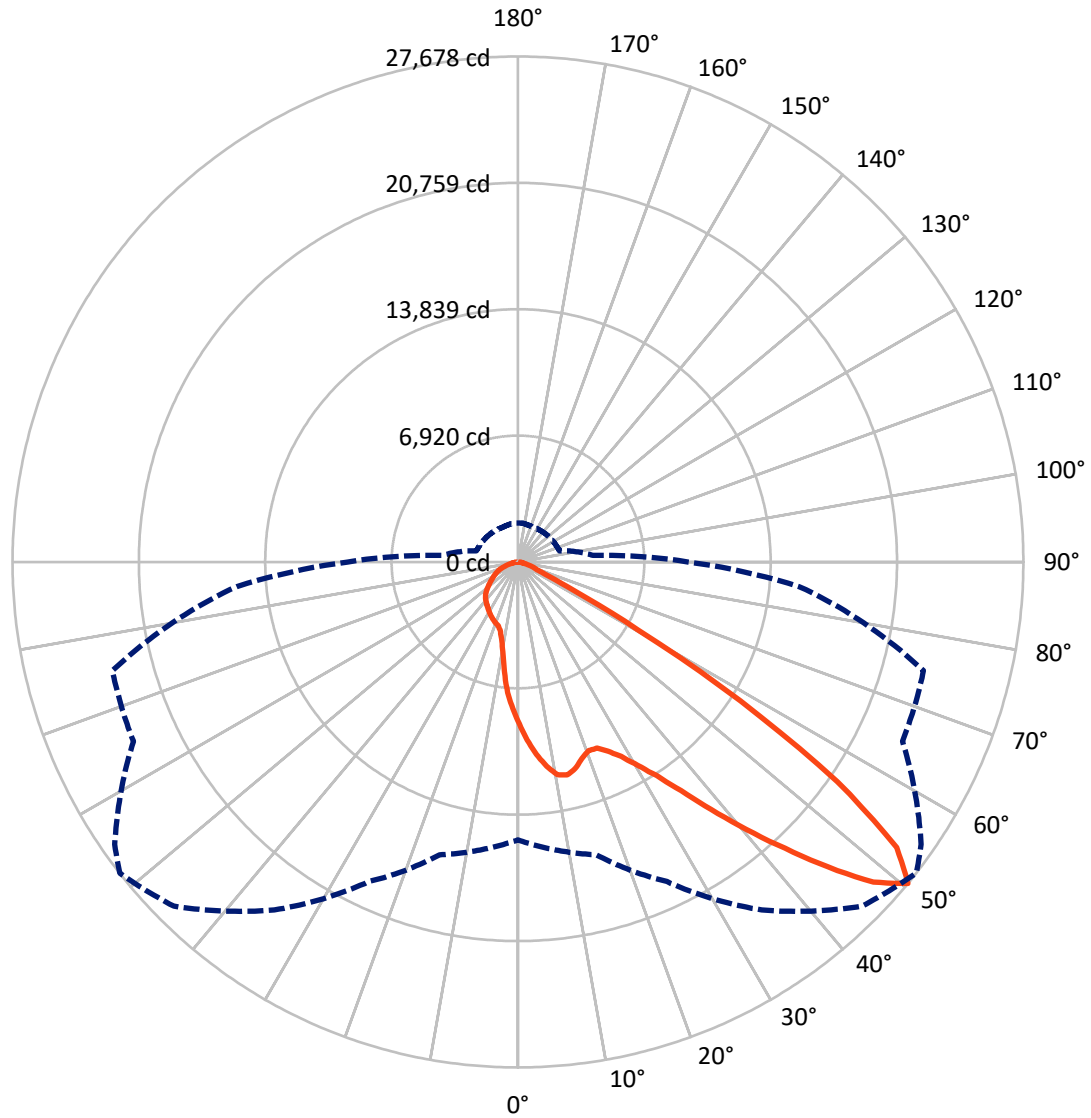
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5913.9	0.0	5913.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	25547.1	0.0	25547.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	31461.0	0.0	31461.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	817.4	2.6
10°-20°	2190.8	7.0
20°-30°	3690.3	11.7
30°-40°	6192.7	19.7
40°-50°	9473.3	30.1
50°-60°	6906.8	22.0
60°-70°	1537.1	4.9
70°-80°	554.4	1.8
80°-90°	98.1	0.3
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°	31461.0	100.0
0°-180°	31461.0	100.0

Coefficient of Utilization

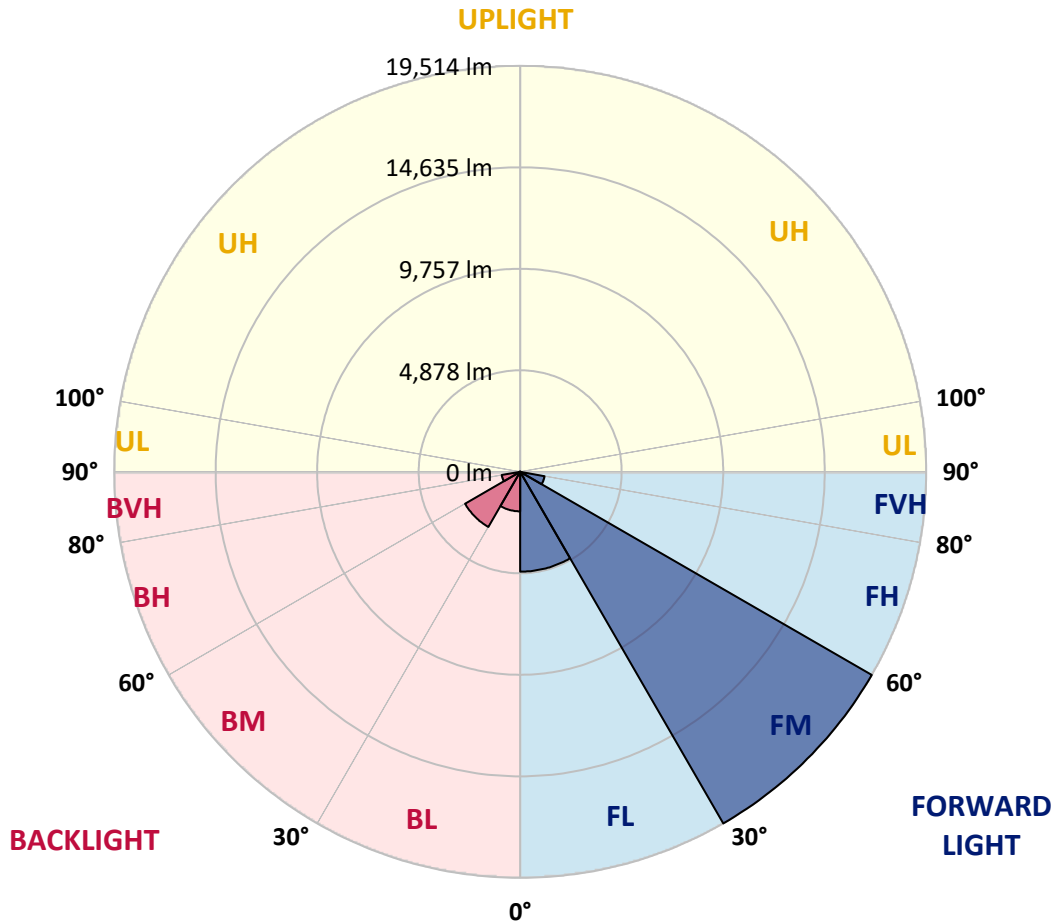


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4798.9	15.3			
FM (30°-60°)	19513.7	62.0			
FH (60°-80°)	1190.5	3.8			G1/1800
FVH (80°-90°)	44.0	0.1			G1/100
BL (0°-30°)	1899.7	6.0	B3/2500		
BM (30°-60°)	3059.1	9.7	B3/5000		
BH (60°-80°)	901.0	2.9	B2/1000		G2/1000
BVH (80°-90°)	54.2	0.2			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°	52°	55°	65°	75°	85°
0°	8868.3	8868.3	8868.3	8868.3	8868.3	8868.3	8868.3	8868.3	8868.3	8868.3	8868.3
2.5°	10441.8	10240.9	10263.6	10119.5	9964.1	9918.6	9759.3	9607.7	9493.9	9251.3	9027.6
5°	11412.4	11351.8	11260.8	11147.0	11029.5	10741.3	10578.3	10388.7	9971.7	9596.3	9224.7
7.5°	11552.7	11541.3	11590.6	11590.6	11632.3	11522.4	11291.1	11158.4	10714.8	10104.4	9414.3
10°	10566.9	10601.1	10839.9	11150.8	11583.1	11882.6	11844.7	11810.5	11325.2	10491.1	9638.0
12.5°	9782.1	9706.3	9846.5	10111.9	10760.3	11484.5	11973.6	11977.4	11852.3	11109.1	9801.0
15°	9338.5	9391.6	9429.5	9554.6	10043.7	10881.6	11742.3	11996.3	12546.1	11545.1	10058.9
17.5°	9622.8	9444.6	9437.1	9467.4	9717.6	10347.0	11313.9	11749.9	12925.2	12106.3	10377.4
20°	9994.4	9990.6	9884.5	9846.5	9842.8	10403.9	11033.3	11624.8	13126.2	12834.3	10699.6
22.5°	10646.6	10646.6	10472.1	10388.7	10210.5	10669.3	11071.2	11473.1	13459.8	13334.7	10855.1
25°	11738.5	11560.3	11260.8	11056.0	10953.7	11116.7	11473.1	11833.3	13751.8	13865.5	11177.4
27.5°	12747.0	12466.5	12318.6	11966.0	11829.5	11734.7	12060.8	12424.8	14093.0	14692.1	11351.8
30°	13892.1	13842.8	13577.4	13122.4	12785.0	12610.6	12910.1	13270.3	14718.6	15537.6	11753.7
32.5°	15939.5	15492.1	15131.9	14574.6	14024.8	13653.2	13949.0	14187.8	15757.5	16421.0	12193.5
35°	18149.9	18005.9	17384.1	16379.3	15537.6	15203.9	15378.4	15556.6	16967.0	17770.8	12932.8
37.5°	20322.5	20125.3	19613.5	18768.0	17744.3	17065.6	17190.7	17399.2	18324.4	19590.7	13835.2
40°	21884.6	21641.9	21384.1	21259.0	20242.9	19313.9	19241.9	19295.0	20159.4	21296.9	14836.2
42.5°	21998.3	22297.9	22377.5	22881.7	22642.9	21880.8	21437.2	21448.6	21911.1	22984.1	15848.5
45°	21759.5	21482.7	22070.4	23446.7	24235.3	24591.7	23844.8	23750.0	22995.5	23962.3	16352.8
47.5°	19253.3	19329.1	20322.5	22498.8	24777.5	26369.9	26195.5	25880.8	23575.6	23928.2	16273.1
50°	15219.1	15677.9	16599.2	19310.1	23260.9	26650.5	27678.0	26950.0	23230.6	22987.9	15461.8
52.5°	10134.7	10324.3	10930.9	14430.5	18703.5	23822.0	25971.8	26138.6	22912.1	21755.7	14434.3
55°	4511.9	4496.7	5349.8	7537.5	11734.7	18127.2	21221.1	22237.2	21687.4	20500.7	13433.3
57.5°	1910.9	1975.4	2324.2	3256.9	5770.7	10938.5	14377.4	15268.4	16678.8	16834.3	10305.3
60°	1292.9	1300.5	1395.3	1630.3	2415.2	5137.5	7541.3	8610.5	9619.1	9550.8	5467.4
62.5°	1016.1	1042.7	1114.7	1209.5	1433.2	2331.8	3374.4	3969.7	4034.2	3393.4	2074.0
65°	868.3	872.0	944.1	1023.7	1122.3	1357.4	1626.6	1656.9	1675.8	1615.2	1524.2
67.5°	716.6	724.2	781.1	872.0	963.0	1038.9	1114.7	1152.6	1239.8	1410.4	1387.7
70°	568.7	580.1	629.4	705.2	788.6	834.1	928.9	963.0	1042.7	1175.4	1228.4
72.5°	432.2	436.0	477.7	530.8	606.6	652.1	731.8	769.7	822.8	936.5	985.8
75°	310.9	322.3	352.6	379.2	390.5	420.9	496.7	538.4	614.2	663.5	667.3
77.5°	163.0	170.6	178.2	178.2	216.1	273.0	322.3	345.0	398.1	436.0	417.1
80°	64.5	68.2	87.2	117.5	151.7	197.2	231.3	242.7	288.2	310.9	322.3
82.5°	37.9	41.7	56.9	83.4	110.0	140.3	166.8	178.2	208.5	235.1	242.7
85°	19.0	22.7	34.1	53.1	72.0	87.2	83.4	79.6	79.6	75.8	79.6
87.5°	7.6	7.6	11.4	11.4	11.4	15.2	19.0	19.0	19.0	22.7	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8868.3	8868.3	8868.3	8868.3	8868.3	8868.3	8868.3	8868.3	8868.3	8868.3	8868.3
2.5°	8879.7	8728.0	8587.8	8329.9	8049.4	7969.7	7643.7	7526.1	7442.7	7344.1	7313.8
5°	8925.2	8724.3	8273.1	7753.6	7340.4	6809.5	6460.7	6085.4	5812.4	5744.1	5725.2
7.5°	9020.0	8675.0	7897.7	7112.9	6267.4	5547.0	4997.2	4701.5	4439.9	4424.7	4398.1
10°	9126.2	8527.1	7488.2	6256.0	5175.4	4508.1	4178.2	4049.3	3984.9	3969.7	3962.1
12.5°	9213.4	8496.8	7029.5	5421.9	4401.9	4000.0	3901.5	3890.1	3916.6	3924.2	3939.4
15°	9251.3	8375.4	6475.9	4674.9	3920.4	3772.5	3814.3	3859.8	3878.7	3928.0	3890.1
17.5°	9323.3	8220.0	5793.4	4083.5	3651.2	3677.8	3749.8	3802.9	3833.2	3867.3	3818.0
20°	9361.2	8079.7	5152.7	3730.8	3556.4	3605.7	3704.3	3746.0	3783.9	3799.1	3742.2
22.5°	9327.1	7791.5	4587.7	3446.5	3465.4	3529.9	3617.1	3662.6	3639.8	3579.2	3545.1
25°	9236.1	7385.9	4000.0	3264.5	3336.5	3450.3	3518.5	3484.4	3442.7	3408.6	3397.2
27.5°	9232.3	6889.2	3575.4	3097.7	3226.6	3382.0	3359.3	3328.9	3347.9	3321.4	3291.0
30°	9251.3	6407.6	3226.6	3002.9	3147.0	3222.8	3249.3	3219.0	3241.7	3192.4	3207.6
32.5°	9152.7	5937.5	2999.1	2892.9	3052.2	3048.4	3135.6	3158.3	3105.2	3002.9	3018.0
35°	9194.4	5558.3	2805.7	2843.6	2946.0	2946.0	3014.2	2987.7	2847.4	2786.8	2801.9
37.5°	9482.6	5186.8	2710.9	2775.4	2843.6	2874.0	2851.2	2737.5	2703.3	2703.3	2710.9
40°	9755.5	4868.3	2654.1	2760.2	2748.8	2767.8	2601.0	2612.3	2612.3	2616.1	2597.2
42.5°	9998.2	4652.2	2608.6	2669.2	2688.2	2589.6	2487.2	2475.9	2502.4	2498.6	2483.4
45°	10085.4	4474.0	2544.1	2566.9	2582.0	2419.0	2369.7	2346.9	2377.3	2388.6	2403.8
47.5°	9751.8	4326.1	2472.1	2426.6	2396.2	2290.1	2225.6	2183.9	2221.8	2286.3	2301.4
50°	9323.3	4132.7	2358.3	2271.1	2206.7	2161.2	2115.7	2074.0	2100.5	2146.0	2134.6
52.5°	8690.1	3829.4	2214.2	2123.2	2013.3	2024.7	1983.0	1960.2	1975.4	1975.4	1964.0
55°	7787.8	3147.0	1971.6	1907.1	1816.1	1846.5	1854.0	1823.7	1793.4	1819.9	1797.2
57.5°	5315.7	2221.8	1759.3	1759.3	1668.3	1710.0	1706.2	1634.1	1562.1	1569.7	1554.5
60°	3074.9	1770.6	1622.8	1607.6	1512.8	1546.9	1554.5	1505.2	1395.3	1402.9	1387.7
62.5°	1747.9	1512.8	1418.0	1395.3	1376.3	1406.6	1406.6	1342.2	1247.4	1255.0	1239.8
65°	1486.3	1402.9	1266.4	1262.6	1255.0	1262.6	1232.2	1164.0	1080.6	1046.5	1050.2
67.5°	1349.8	1296.7	1164.0	1129.9	1107.1	1103.3	1046.5	982.0	944.1	913.8	910.0
70°	1183.0	1141.2	1042.7	997.2	974.4	921.3	864.5	822.8	769.7	754.5	769.7
72.5°	936.5	932.7	894.8	845.5	796.2	754.5	705.2	648.3	599.1	587.7	561.1
75°	648.3	655.9	663.5	655.9	614.2	561.1	504.3	458.8	398.1	364.0	356.4
77.5°	424.6	436.0	447.4	432.2	405.7	356.4	318.5	261.6	216.1	189.6	185.8
80°	310.9	326.1	333.7	322.3	291.9	254.0	212.3	166.8	132.7	110.0	110.0
82.5°	238.9	254.0	261.6	242.7	212.3	182.0	151.7	117.5	91.0	72.0	68.2
85°	83.4	79.6	94.8	98.6	117.5	110.0	91.0	68.2	53.1	37.9	34.1
87.5°	22.7	22.7	26.5	26.5	22.7	19.0	19.0	19.0	15.2	11.4	11.4
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)