

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: P531975

Luminaire Tested: **GALN-SA7B-740-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531975
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-740-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23133 lumens
Efficiency: N/A
Efficacy: 80.9 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

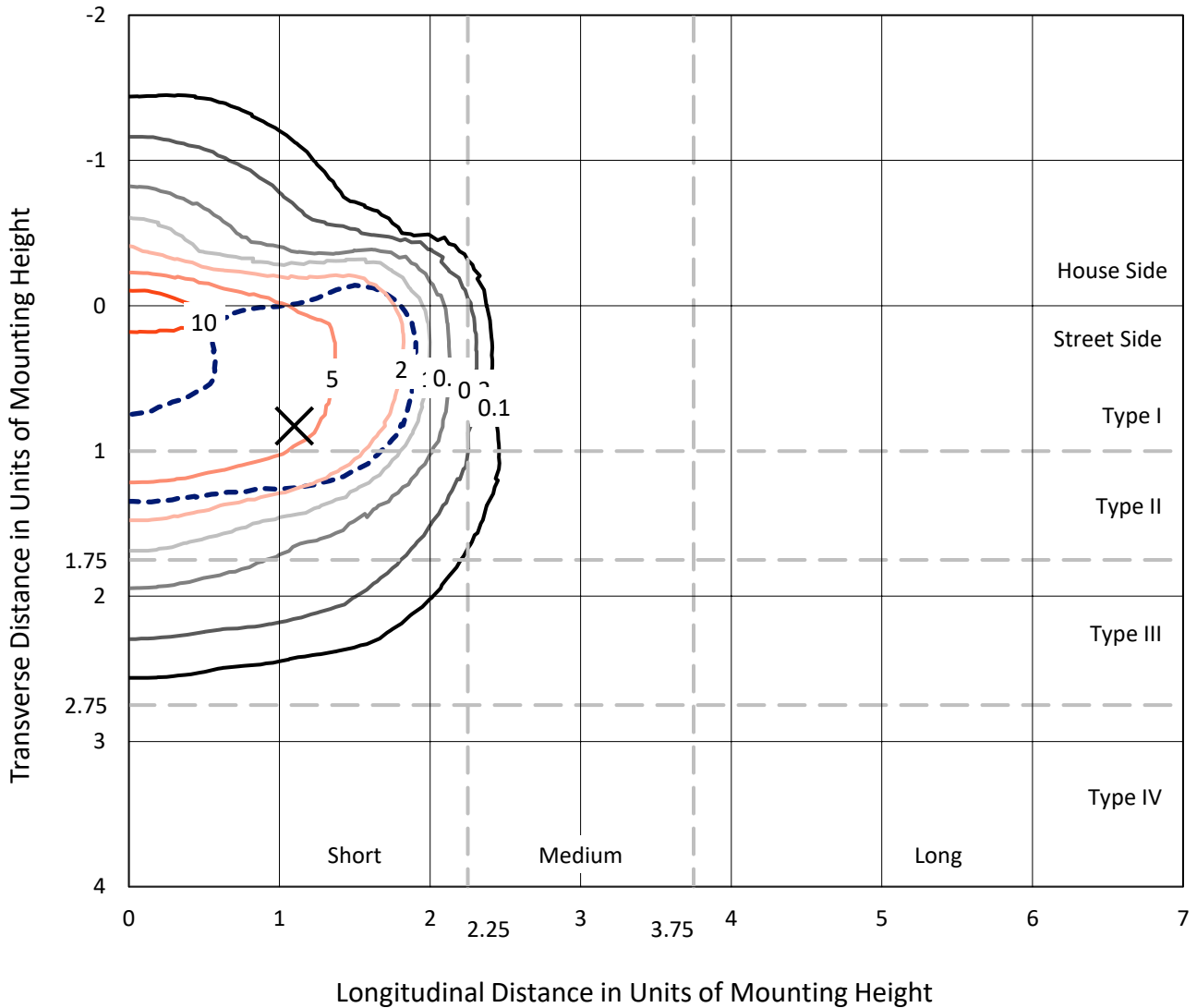
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

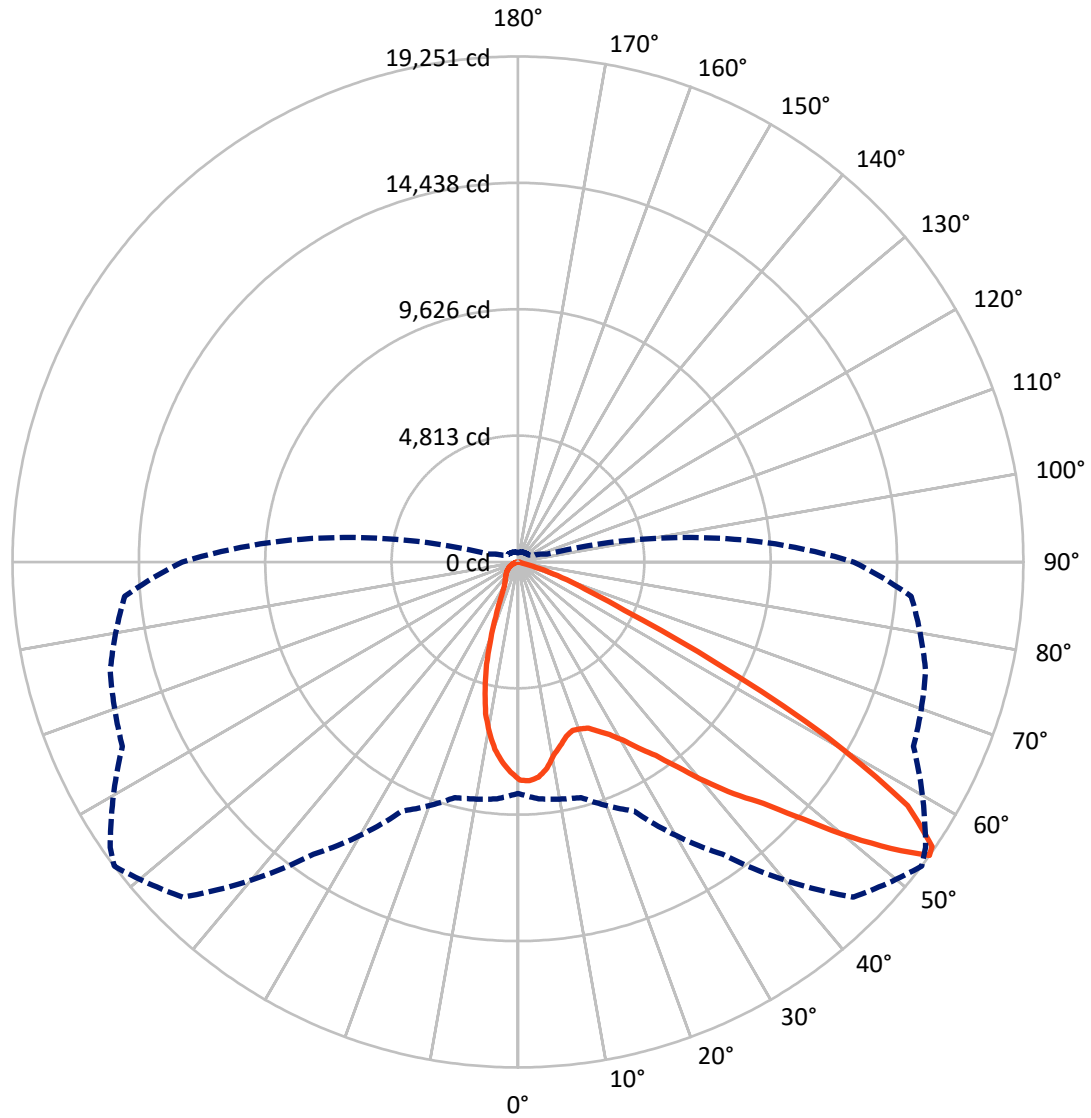
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3827.4	0.0	3827.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	19305.6	0.0	19305.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	23133.0	0.0	23133.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	712.9	3.1
10°-20°	1634.4	7.1
20°-30°	2322.9	10.0
30°-40°	3584.8	15.5
40°-50°	5620.7	24.3
50°-60°	6529.2	28.2
60°-70°	2467.1	10.7
70°-80°	234.6	1.0
80°-90°	26.4	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°	23133.0	100.0
0°-180°	23133.0	100.0

Coefficient of Utilization



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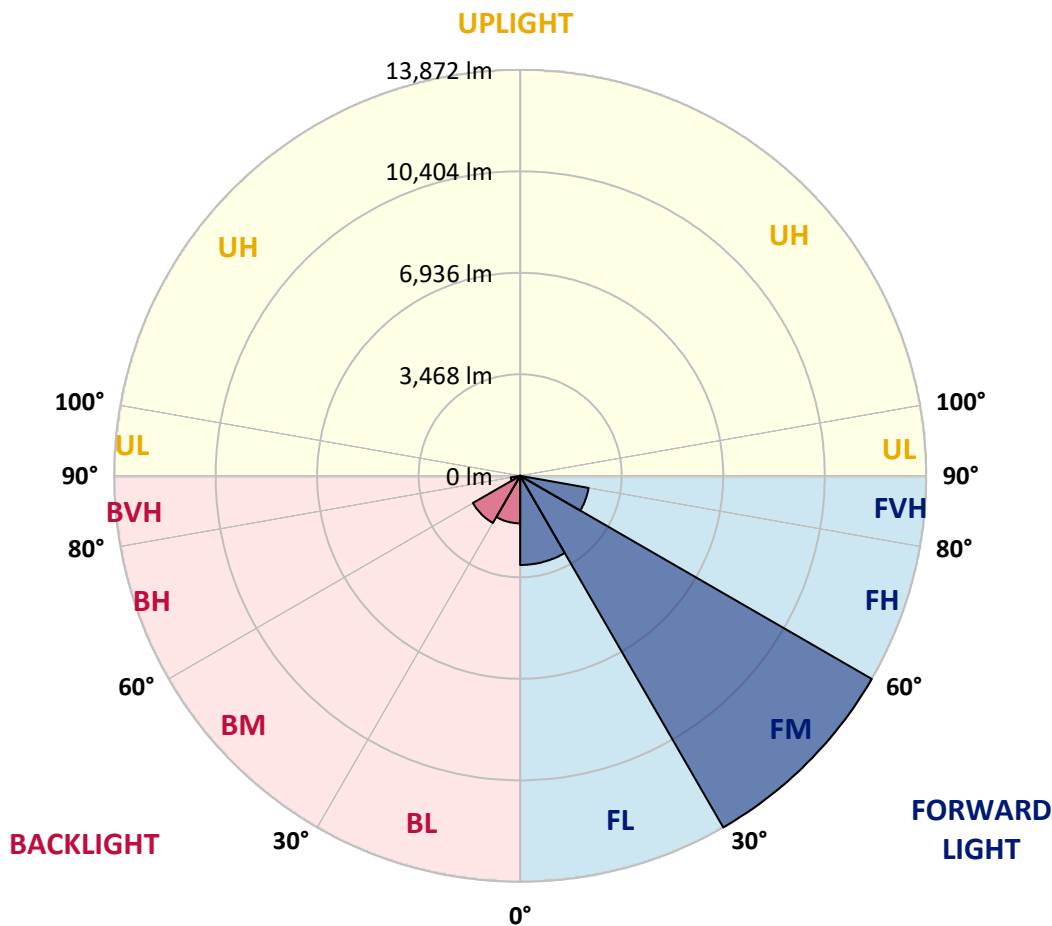
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3046.0	13.2			
FM (30°-60°)	13872.1	60.0			
FH (60°-80°)	2373.8	10.3			G2/5000
FVH (80°-90°)	13.6	0.1			G1/100
BL (0°-30°)	1624.2	7.0	B3/2500		
BM (30°-60°)	1862.5	8.1	B2/2500		
BH (60°-80°)	327.9	1.4	B1/500		G1/500
BVH (80°-90°)	12.8	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°	53°	55°	65°	75°	85°
0°	8309.0	8309.0	8309.0	8309.0	8309.0	8309.0	8309.0	8309.0	8309.0	8309.0	8309.0
2.5°	8265.9	8192.6	8265.9	8274.5	8326.2	8373.6	8343.5	8412.4	8373.6	8330.5	8317.6
5°	7597.9	7697.0	7701.3	7856.5	7822.0	8106.4	8231.4	8196.9	8408.1	8395.2	8365.0
7.5°	6998.9	6960.1	7011.8	7192.8	7421.2	7748.7	7929.7	7925.4	8227.1	8442.6	8421.0
10°	6442.9	6438.6	6546.3	6688.6	6882.5	7227.3	7477.2	7602.2	8072.0	8399.5	8446.9
12.5°	6068.0	6050.7	6167.1	6283.5	6589.4	6856.6	7175.5	7235.9	7774.6	8248.6	8326.2
15°	5822.3	5861.1	5869.7	6093.8	6287.8	6641.2	6891.1	7016.1	7636.7	8128.0	8425.3
17.5°	5779.2	5830.9	5835.3	6020.6	6227.4	6524.8	6744.6	6912.7	7520.3	8188.3	8429.7
20°	5865.4	5835.3	5861.1	5977.5	6180.0	6464.5	6783.4	6839.4	7481.5	8218.5	8477.1
22.5°	6111.1	6102.4	6037.8	6132.6	6274.8	6572.2	6873.9	6960.1	7593.6	8373.6	8515.8
25°	6382.6	6430.0	6369.6	6356.7	6455.8	6748.9	7149.7	7261.7	7968.5	8653.8	8636.5
27.5°	6891.1	6843.7	6843.7	6783.4	6757.5	6899.7	7447.1	7632.4	8386.6	9015.8	8774.4
30°	7378.1	7429.8	7391.0	7412.6	7240.2	7227.3	7869.4	8097.8	9127.8	9567.4	9067.5
32.5°	8149.5	8080.6	8145.2	8089.2	7860.8	7628.1	8442.6	8679.6	10024.2	10200.9	9507.1
35°	8791.7	8761.5	9037.3	9028.7	8658.1	8429.7	9050.2	9403.6	10649.1	10959.4	10024.2
37.5°	9705.3	9649.3	9963.9	10114.7	9782.9	9442.4	9920.8	10330.2	11230.9	11567.1	10554.3
40°	10644.8	10787.0	11209.4	11459.3	11105.9	10653.4	10985.3	11110.2	11618.8	11963.6	10916.3
42.5°	11834.3	12041.1	12472.1	12687.6	12657.4	12166.1	12067.0	12062.7	11898.9	11851.5	11183.5
45°	12976.3	12898.7	13562.4	14032.2	14411.4	14269.2	13109.9	12980.6	12342.8	12019.6	11252.5
47.5°	13476.2	13450.4	13902.9	14739.0	16031.9	16208.6	14626.9	14127.0	13092.7	12726.4	11627.4
50°	12829.8	12963.4	13411.6	14338.2	16320.6	17669.5	16488.7	15816.4	13967.5	13588.3	12515.2
52.5°	10718.1	10808.6	11235.2	12411.8	15338.0	18531.4	18272.9	17885.0	15575.0	14945.8	14062.4
54°	8813.2	9054.6	9287.3	10468.1	13588.3	18053.1	19251.2	18953.8	16622.3	16075.0	15036.3
55°	7675.5	7817.7	7985.8	9162.3	12377.3	17242.9	19139.1	19165.0	17324.7	16428.3	15691.4
57.5°	5606.8	5706.0	5533.6	6055.0	8498.6	14002.0	17505.8	18203.9	18272.9	16958.4	16092.2
60°	4283.8	4326.9	4132.9	4214.8	5283.6	9610.5	13540.9	14381.3	16484.4	14820.8	13631.4
62.5°	3322.7	3331.4	3327.0	3469.3	3641.6	5654.2	8468.4	9214.0	11364.5	10524.1	9257.1
65°	2447.9	2409.1	2478.0	2909.0	3107.2	3555.5	4460.5	5003.5	6175.7	5214.7	3727.8
67.5°	1585.9	1598.9	1667.8	2163.4	2663.4	2728.0	2745.2	2702.1	2706.5	1491.1	935.2
70°	952.4	974.0	952.4	1223.9	1904.9	1956.6	1788.5	1745.4	1361.8	353.4	349.1
72.5°	564.6	534.4	478.4	525.8	793.0	948.1	853.3	849.0	534.4	206.9	206.9
75°	237.0	215.5	176.7	159.5	211.2	202.6	202.6	181.0	142.2	137.9	129.3
77.5°	47.4	47.4	34.5	38.8	51.7	60.3	73.3	73.3	86.2	86.2	81.9
80°	0.0	4.3	12.9	25.9	38.8	56.0	64.6	64.6	73.3	73.3	60.3
82.5°	0.0	4.3	12.9	25.9	34.5	51.7	64.6	64.6	73.3	77.6	64.6
85°	0.0	4.3	12.9	21.5	34.5	43.1	43.1	38.8	30.2	25.9	17.2
87.5°	0.0	0.0	4.3	8.6	4.3	8.6	8.6	8.6	8.6	8.6	8.6
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°	8309.0	8309.0	8309.0	8309.0	8309.0	8309.0	8309.0	8309.0	8309.0	8309.0	8309.0
2.5°	8347.8	8343.5	8240.0	8072.0	8033.2	7890.9	7873.7	7787.5	7834.9	7675.5	7658.2
5°	8278.8	8227.1	8102.1	7994.4	7679.8	7455.7	7279.0	7063.5	6938.5	6960.1	6878.2
7.5°	8377.9	8244.3	8024.5	7649.6	7266.1	6873.9	6662.7	6223.1	6063.7	5826.6	5792.2
10°	8274.5	8175.4	7834.9	7214.3	6684.2	6119.7	5624.1	5137.1	4766.5	4607.0	4572.5
12.5°	8265.9	8093.5	7524.6	6835.1	6068.0	5257.8	4538.0	3930.4	3564.1	3357.2	3309.8
15°	8132.3	7925.4	7175.5	6249.0	5188.8	4180.3	3396.0	2809.9	2529.8	2409.1	2443.6
17.5°	8145.2	7834.9	6826.5	5628.4	4322.6	3068.5	2318.6	2016.9	1943.6	1973.8	1973.8
20°	8132.3	7632.4	6404.1	4913.0	3309.8	2129.0	1702.3	1594.6	1642.0	1736.8	1715.2
22.5°	8063.3	7537.6	6016.3	4158.8	2434.9	1577.3	1366.2	1370.5	1443.7	1560.1	1585.9
25°	8115.0	7326.4	5525.0	3396.0	1775.6	1258.4	1185.2	1215.3	1292.9	1379.1	1396.3
27.5°	8076.3	7175.5	5012.1	2637.5	1297.2	1081.7	1077.4	1111.9	1146.4	1211.0	1211.0
30°	8119.4	7037.6	4507.9	1960.9	1068.8	991.2	974.0	999.8	1034.3	1047.2	1042.9
32.5°	8278.8	6934.2	3926.1	1465.3	943.8	905.0	905.0	905.0	900.7	918.0	922.3
35°	8627.9	6951.4	3413.2	1133.4	861.9	831.8	818.8	801.6	793.0	801.6	805.9
37.5°	9007.1	6942.8	2883.1	965.4	801.6	775.7	745.6	719.7	715.4	724.0	711.1
40°	9175.2	7024.7	2391.8	866.2	745.6	715.4	668.0	646.4	650.8	659.4	650.8
42.5°	9403.6	7050.6	2072.9	788.7	693.9	646.4	616.3	590.4	586.1	599.0	594.7
45°	9399.3	6904.0	1736.8	745.6	646.4	594.7	555.9	534.4	534.4	543.0	547.3
47.5°	9675.1	6882.5	1491.1	706.8	612.0	560.3	512.8	495.6	491.3	491.3	482.7
50°	10317.3	7184.2	1301.5	663.7	568.9	521.5	482.7	461.1	443.9	435.3	431.0
52.5°	11571.4	8123.7	1155.0	612.0	521.5	482.7	448.2	431.0	409.4	387.9	383.6
54°	12786.7	9093.3	1146.4	568.9	482.7	456.8	426.7	418.0	392.2	362.0	353.4
55°	13334.0	9657.9	1176.5	534.4	456.8	439.6	413.7	405.1	379.2	344.8	340.5
57.5°	13786.5	9877.7	1159.3	443.9	413.7	409.4	387.9	374.9	344.8	297.4	288.7
60°	11097.3	7468.6	831.8	392.2	379.2	370.6	353.4	344.8	306.0	254.3	250.0
62.5°	7011.8	4296.7	530.1	344.8	331.8	318.9	297.4	288.7	254.3	202.6	189.6
65°	2986.6	1779.9	357.7	306.0	284.4	262.9	245.6	232.7	202.6	150.8	146.5
67.5°	775.7	633.5	297.4	267.2	237.0	206.9	193.9	172.4	137.9	103.4	99.1
70°	349.1	318.9	250.0	224.1	189.6	159.5	142.2	120.7	90.5	69.0	64.6
72.5°	206.9	202.6	189.6	168.1	142.2	120.7	103.4	81.9	60.3	38.8	38.8
75°	129.3	125.0	129.3	116.4	99.1	90.5	77.6	56.0	34.5	17.2	17.2
77.5°	77.6	77.6	77.6	73.3	69.0	69.0	56.0	34.5	17.2	4.3	4.3
80°	60.3	60.3	64.6	60.3	60.3	60.3	47.4	25.9	8.6	0.0	0.0
82.5°	60.3	64.6	73.3	69.0	60.3	51.7	43.1	25.9	8.6	0.0	0.0
85°	17.2	12.9	21.5	30.2	43.1	38.8	30.2	21.5	8.6	0.0	0.0
87.5°	8.6	8.6	8.6	8.6	4.3	4.3	4.3	4.3	4.3	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)