

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: P532887

Luminaire Tested: **GALN-SA8B-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532887
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-SA8B-735-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA 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: 25031 lumens
Efficiency: N/A
Efficacy: 77.0 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

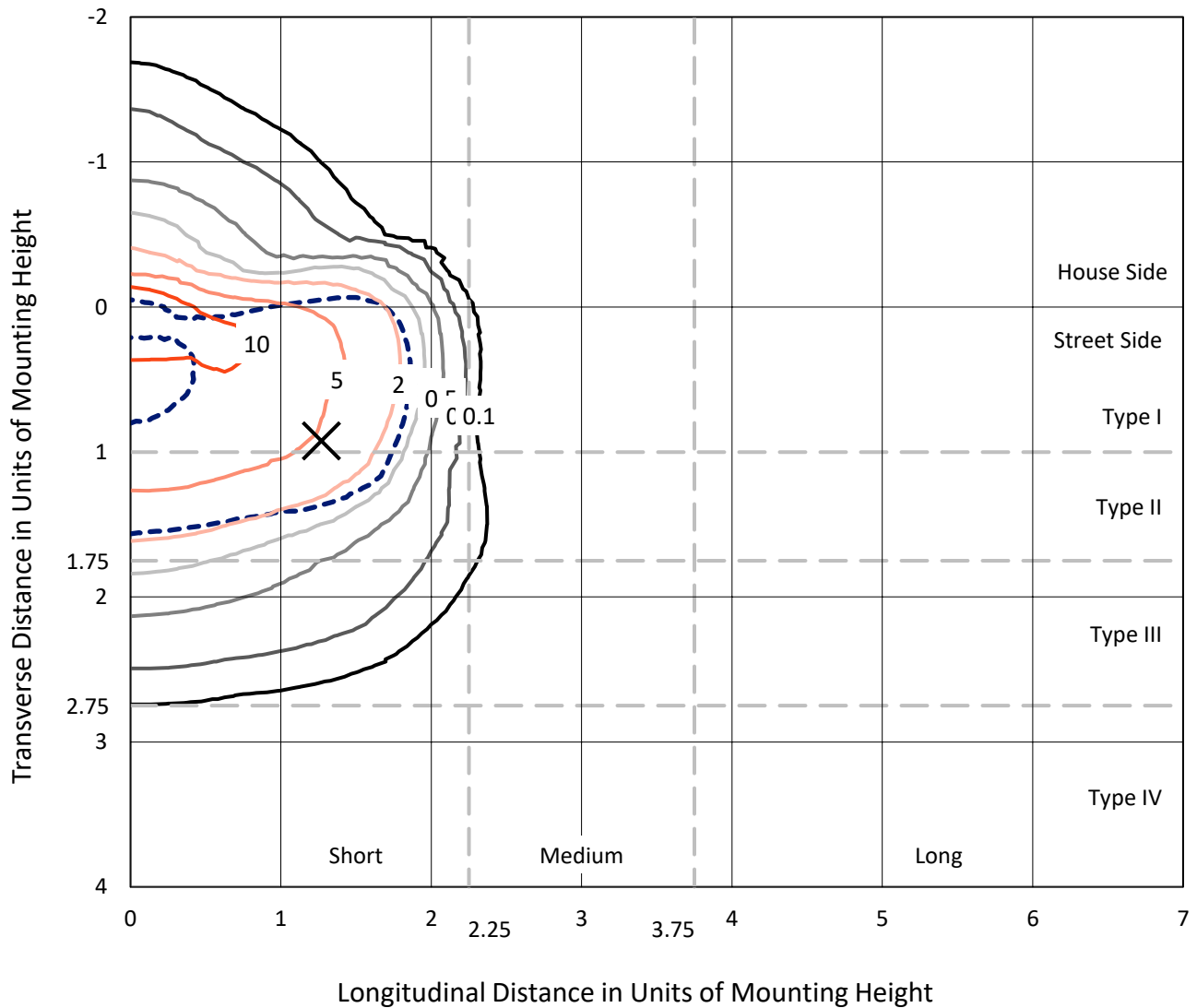
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

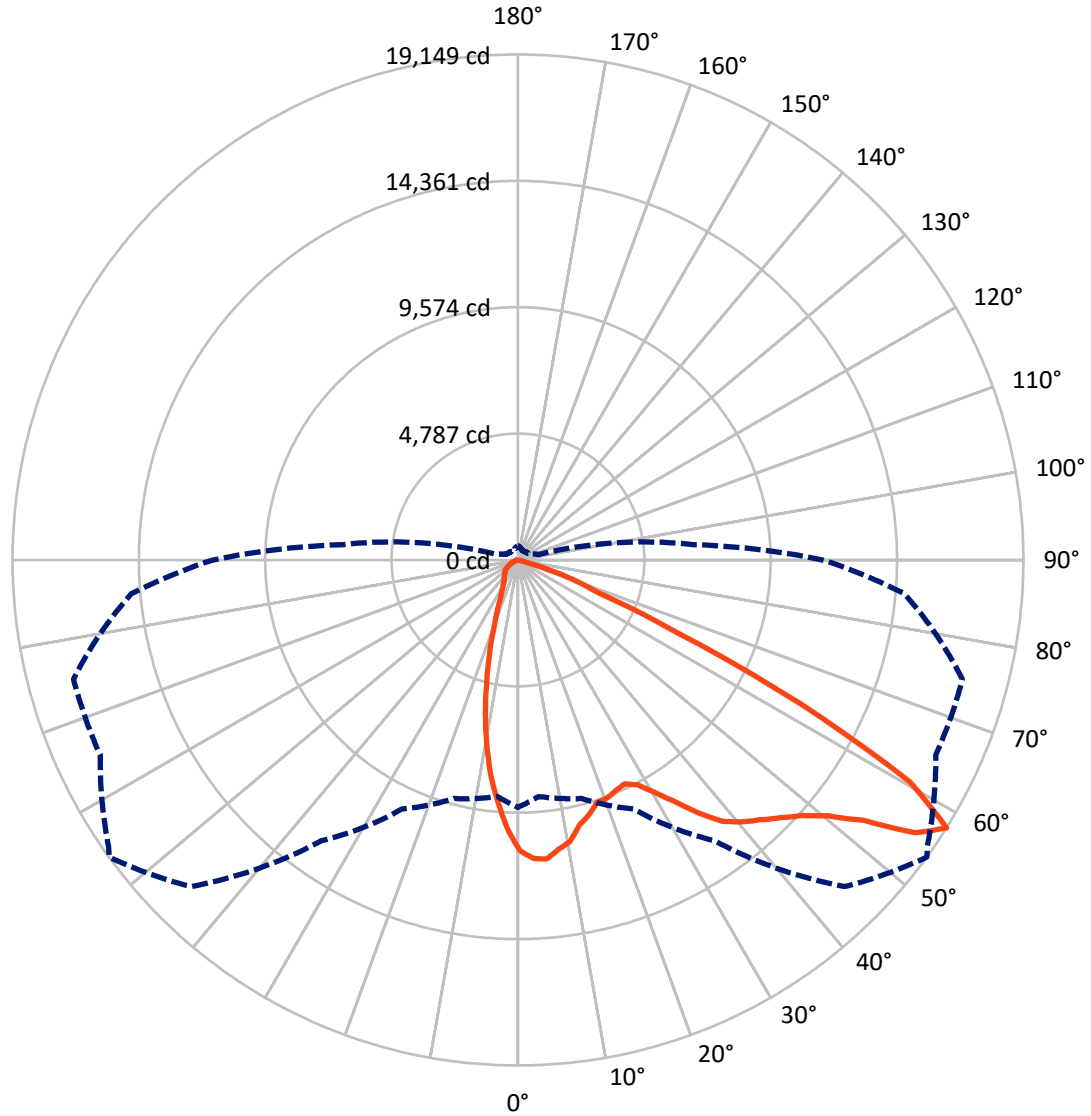
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 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	3537.3	0.0	3537.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	21493.7	0.0	21493.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	25031.0	0.0	25031.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	922.7	3.7
10°-20°	1970.0	7.9
20°-30°	2610.6	10.4
30°-40°	3794.0	15.2
40°-50°	5625.9	22.5
50°-60°	7035.0	28.1
60°-70°	2775.0	11.1
70°-80°	276.3	1.1
80°-90°	21.5	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°	25031.0	100.0
0°-180°	25031.0	100.0

Coefficient of Utilization



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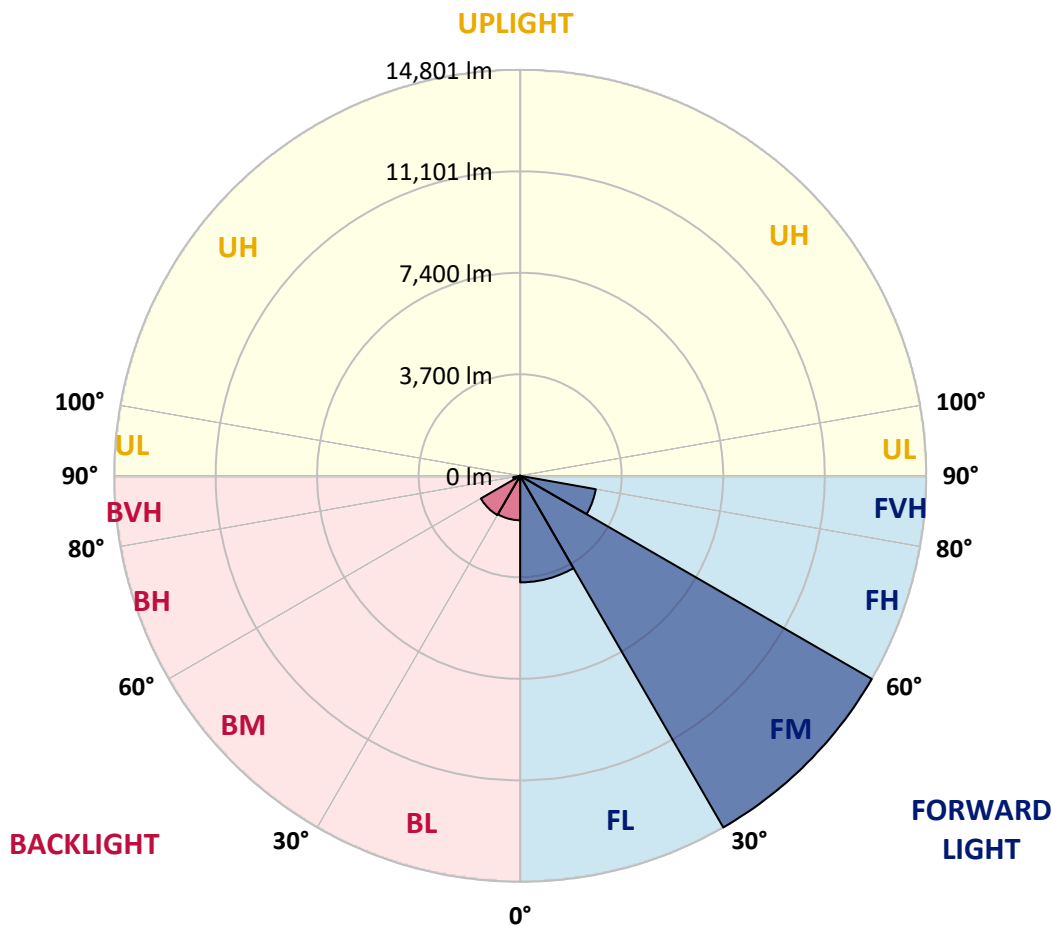
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3885.5	15.5			
FM (30°-60°)	14800.8	59.1			
FH (60°-80°)	2797.6	11.2			G2/5000
FVH (80°-90°)	9.8	0.0			G0/10
BL (0°-30°)	1617.8	6.5	B3/2500		
BM (30°-60°)	1654.1	6.6	B2/2500		
BH (60°-80°)	253.7	1.0	B1/500		G1/500
BVH (80°-90°)	11.7	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°	11026.5	11026.5	11026.5	11026.5	11026.5	11026.5	11026.5	11026.5	11026.5	11026.5	11026.5
2.5°	11668.8	11547.8	11557.1	11515.2	11459.4	11501.3	11319.7	11361.6	11357.0	11110.3	10947.4
5°	11375.6	11505.9	11370.9	11482.6	11375.6	11491.9	11380.2	11296.5	11161.5	10979.9	10677.4
7.5°	10877.5	10751.9	10789.1	10928.7	10952.0	11212.7	11073.0	11180.1	11124.2	10765.8	10351.6
10°	9876.8	9848.9	10035.1	10221.3	10449.3	10728.6	10835.7	10775.1	10733.3	10598.3	10044.4
12.5°	9108.8	9188.0	9183.3	9490.5	9876.8	10035.1	10314.4	10305.0	10537.8	10286.4	9755.8
15°	8378.1	8420.0	8615.5	8806.3	9234.5	9686.0	10030.4	10077.0	10356.2	10179.4	9532.4
17.5°	7931.3	7870.7	8024.3	8252.4	8689.9	9281.1	9662.7	9774.4	10156.1	10118.9	9276.4
20°	7489.1	7489.1	7614.7	7884.7	8285.0	8950.6	9630.1	9597.6	10156.1	10049.0	9001.8
22.5°	7340.1	7414.6	7447.2	7652.0	8126.7	8699.2	9490.5	9551.0	10235.2	10016.5	8880.8
25°	7544.9	7447.2	7456.5	7619.4	8066.2	8578.2	9388.1	9523.1	10379.5	10179.4	8783.0
27.5°	7577.5	7675.3	7703.2	7814.9	8112.8	8615.5	9644.1	9918.7	10737.9	10561.0	8811.0
30°	7861.4	7959.2	7954.5	8145.4	8350.2	8918.0	10216.6	10272.5	11478.0	11040.5	8983.2
32.5°	8205.9	8308.3	8340.9	8564.3	8727.2	9471.9	10914.8	11059.1	12190.1	11794.5	9434.7
35°	8634.1	8596.8	8745.8	8969.2	9318.3	10281.8	11766.6	12008.6	12958.1	12771.9	9900.1
37.5°	9169.4	9122.8	9267.1	9630.1	10104.9	11240.6	12553.2	12711.4	13516.6	13679.6	10761.2
40°	9546.4	9565.0	10002.5	10491.2	10993.9	12152.9	13051.2	13204.8	13907.6	14526.7	11412.8
42.5°	10174.7	10291.1	10817.0	11412.8	11938.8	12837.1	13456.1	13605.1	14089.1	15206.2	12292.5
45°	11087.0	11035.8	11617.6	12283.2	12865.0	13549.2	13935.6	13884.4	14196.2	15881.1	12846.4
47.5°	12259.9	12269.2	12655.6	13223.4	13828.5	14168.3	14470.8	14289.3	14419.6	16593.3	13586.5
50°	13060.5	13130.3	13442.2	14024.0	14326.5	14847.8	15234.2	15122.4	15080.6	17021.5	14051.9
52.5°	13265.3	13474.8	13642.3	14368.4	15075.9	15899.7	16393.1	16630.5	15885.8	17165.8	14643.0
55°	11720.0	11906.2	12497.3	13493.4	15359.8	17566.1	18245.6	18250.3	16937.7	17808.1	15057.3
57.5°	9369.5	8992.5	9355.5	10412.1	12986.0	17496.2	19148.6	18929.8	17463.7	17431.1	14698.9
60°	6479.1	6386.0	6409.2	6828.1	8987.8	13916.9	17063.4	17347.3	16081.3	15108.5	11636.2
62.5°	5133.9	5054.8	4952.4	4905.8	5580.7	8671.3	12036.5	12436.8	11245.3	9797.7	6898.0
65°	4021.5	3974.9	3988.9	4175.1	4170.4	4919.8	6581.5	6418.5	5138.6	3798.1	2169.0
67.5°	2713.6	2783.4	2839.2	3402.4	3691.0	3425.7	3179.0	3085.9	1671.0	702.8	479.4
70°	1526.7	1536.0	1596.5	2127.1	2802.0	2657.7	2192.3	2192.3	833.2	256.0	274.6
72.5°	833.2	805.2	749.4	916.9	1247.4	1266.0	977.4	851.8	246.7	167.6	153.6
75°	404.9	400.3	344.4	283.9	270.0	223.4	172.2	158.3	111.7	107.1	93.1
77.5°	83.8	79.1	41.9	41.9	46.5	51.2	65.2	65.2	79.1	79.1	65.2
80°	0.0	0.0	4.7	18.6	32.6	46.5	55.9	55.9	65.2	65.2	51.2
82.5°	0.0	0.0	4.7	14.0	27.9	41.9	51.2	55.9	65.2	69.8	55.9
85°	0.0	0.0	0.0	9.3	23.3	32.6	27.9	27.9	23.3	18.6	9.3
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°	11026.5	11026.5	11026.5	11026.5	11026.5	11026.5	11026.5	11026.5	11026.5	11026.5	11026.5
2.5°	10863.6	10854.3	10640.2	10519.2	10300.4	10109.6	9956.0	9844.3	9844.3	9774.4	9709.3
5°	10556.4	10477.3	10021.1	9727.9	9313.6	9006.4	8797.0	8634.1	8378.1	8447.9	8173.3
7.5°	10174.7	9974.6	9369.5	8922.7	8350.2	7912.6	7465.8	7070.2	6688.5	6516.3	6609.4
10°	9765.1	9416.0	8601.5	7894.0	7181.9	6381.3	5860.0	5227.0	4836.0	4812.7	4710.3
12.5°	9332.3	8936.6	7945.2	6967.8	6032.2	5068.7	4272.8	3681.7	3416.4	3123.2	3179.0
15°	9006.4	8420.0	7214.5	6036.9	4794.1	3821.3	3020.8	2564.6	2313.3	2243.5	2220.2
17.5°	8652.7	8024.3	6469.7	5045.5	3760.8	2750.8	2173.6	1954.9	1857.1	1857.1	1843.2
20°	8285.0	7577.5	5729.7	4123.9	2820.6	2052.6	1740.8	1671.0	1666.3	1661.7	1661.7
22.5°	8043.0	7065.5	5059.4	3276.8	2127.1	1643.0	1512.7	1484.8	1503.4	1559.3	1559.3
25°	7787.0	6572.1	4319.4	2527.4	1647.7	1410.3	1335.8	1354.5	1401.0	1452.2	1433.6
27.5°	7526.3	6251.0	3621.2	1982.8	1349.8	1233.4	1205.5	1247.4	1298.6	1345.1	1331.2
30°	7465.8	5906.6	2960.3	1503.4	1159.0	1075.2	1093.8	1131.0	1182.2	1200.9	1219.5
32.5°	7558.9	5636.6	2425.0	1233.4	1010.0	986.8	986.8	1005.4	1038.0	1079.8	1065.9
35°	7824.2	5483.0	1917.7	1070.5	926.2	903.0	898.3	916.9	935.6	949.5	935.6
37.5°	8229.1	5362.0	1568.6	949.5	870.4	833.2	823.8	819.2	837.8	842.5	851.8
40°	8745.8	5427.1	1331.2	875.0	814.5	772.6	744.7	744.7	744.7	758.7	763.3
42.5°	9304.3	5515.6	1149.7	833.2	763.3	712.1	684.2	674.9	684.2	702.8	698.2
45°	9890.8	5687.8	1033.3	768.0	716.8	651.6	614.4	605.1	628.4	665.6	660.9
47.5°	10440.0	5934.5	944.9	726.1	670.2	609.7	563.2	553.9	595.8	647.0	651.6
50°	10989.3	6362.7	912.3	693.5	637.7	567.8	526.0	516.6	563.2	628.4	642.3
52.5°	11622.3	6823.5	889.0	651.6	600.4	535.3	488.7	479.4	530.6	614.4	619.0
55°	12036.5	7214.5	870.4	577.2	530.6	484.1	446.8	442.2	498.0	572.5	591.1
57.5°	11552.5	6669.9	805.2	502.7	451.5	428.2	395.6	395.6	442.2	512.0	526.0
60°	8759.8	4389.2	572.5	404.9	381.7	367.7	353.7	353.7	391.0	442.2	446.8
62.5°	5129.3	2364.5	367.7	325.8	325.8	311.9	288.6	288.6	325.8	353.7	358.4
65°	1522.0	758.7	297.9	279.3	274.6	251.3	228.1	223.4	251.3	265.3	260.7
67.5°	437.5	349.1	246.7	232.7	228.1	190.8	176.9	172.2	176.9	167.6	162.9
70°	260.7	237.4	190.8	195.5	172.2	139.6	125.7	121.0	111.7	97.7	88.4
72.5°	144.3	144.3	139.6	148.9	121.0	93.1	79.1	65.2	51.2	41.9	37.2
75°	88.4	93.1	97.7	102.4	79.1	60.5	51.2	32.6	18.6	9.3	9.3
77.5°	60.5	65.2	69.8	74.5	65.2	55.9	41.9	23.3	4.7	0.0	0.0
80°	46.5	51.2	60.5	65.2	69.8	74.5	55.9	23.3	4.7	0.0	0.0
82.5°	51.2	55.9	69.8	65.2	65.2	65.2	51.2	23.3	4.7	0.0	0.0
85°	9.3	14.0	23.3	23.3	32.6	41.9	32.6	9.3	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)