

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: P533823

Luminaire Tested: **GALN-SA9B-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533823
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-SA9B-735-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 28102 lumens
Efficiency: N/A
Efficacy: 77.2 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

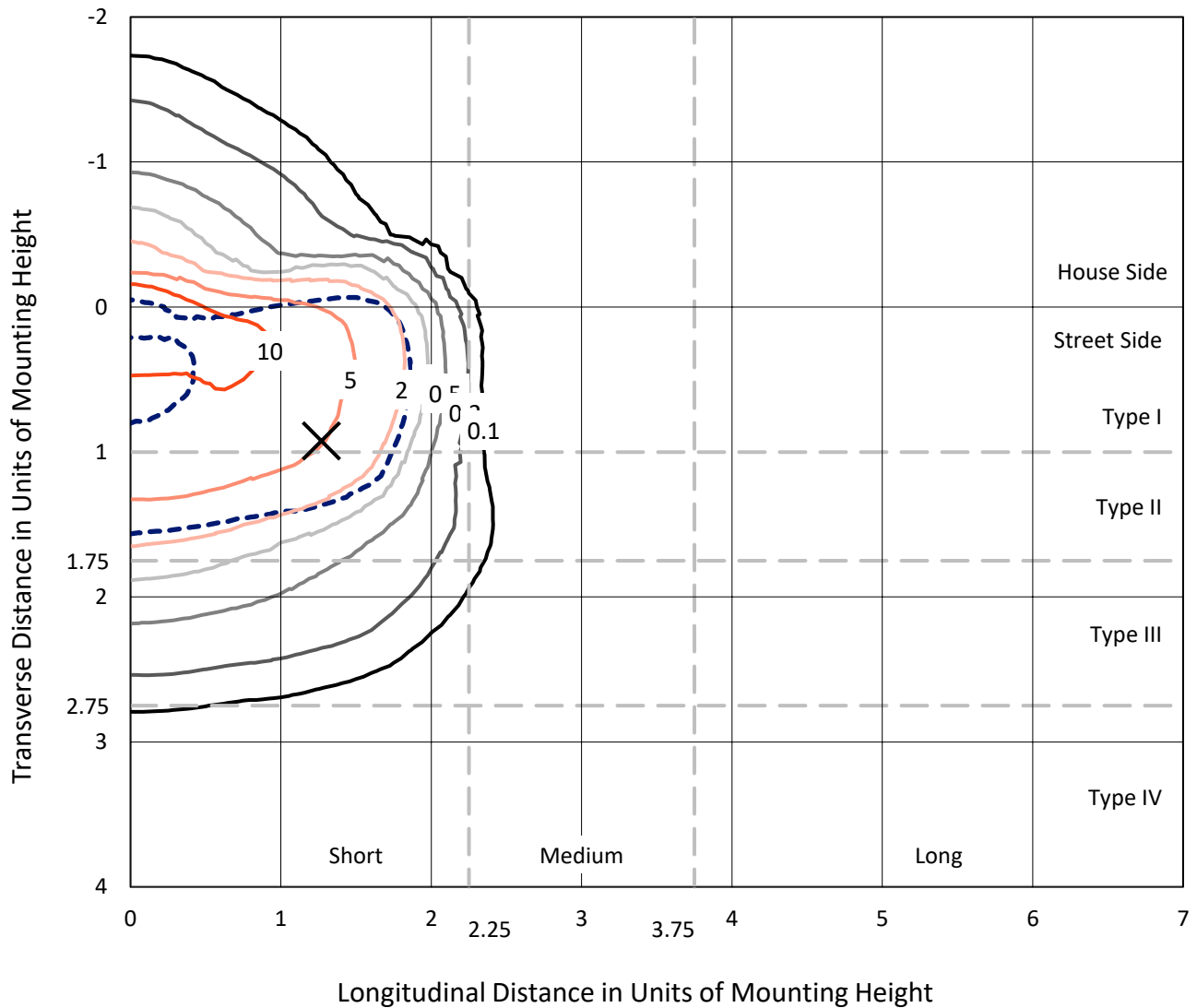
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

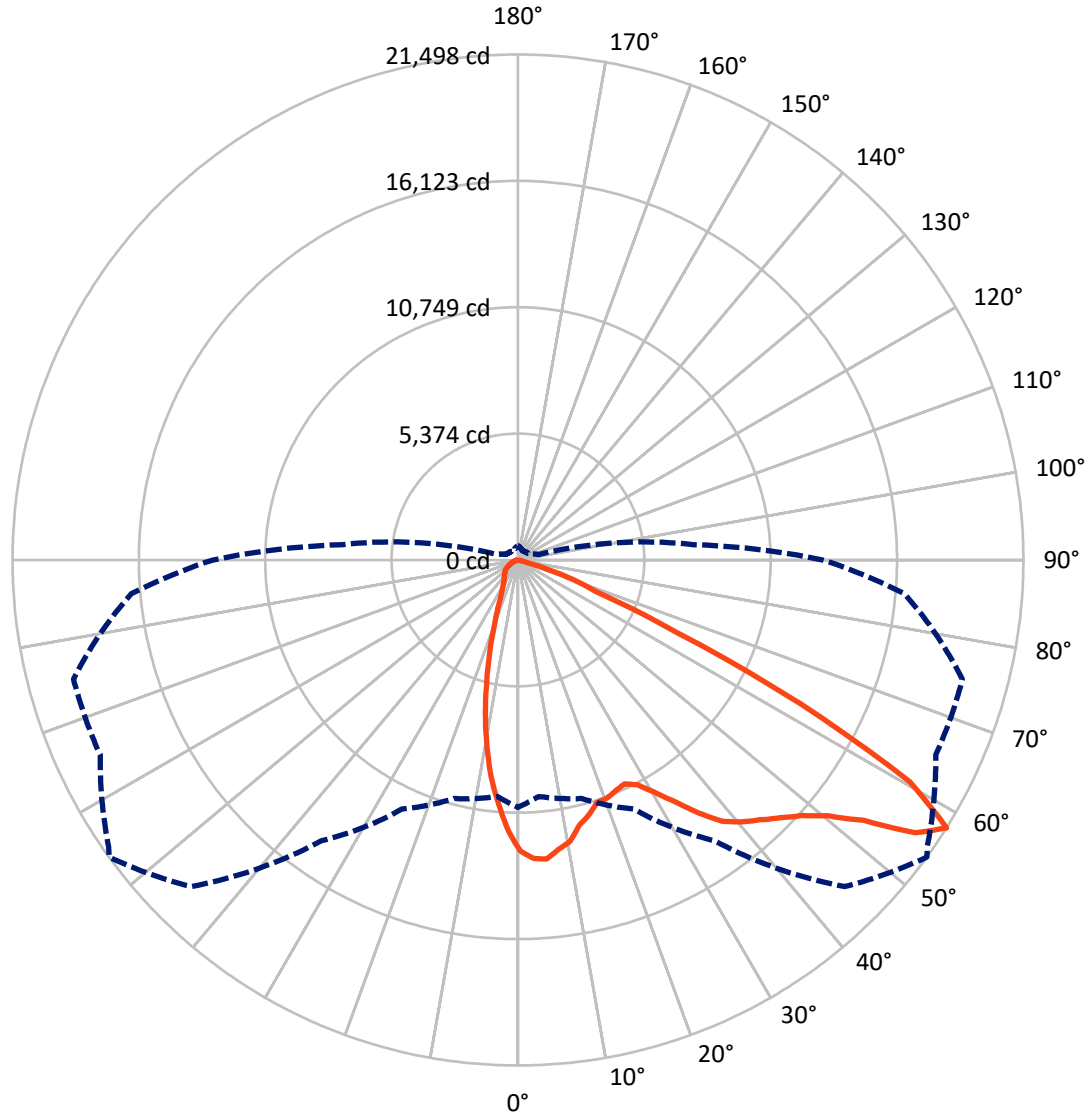
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.8 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	3971.3	0.0	3971.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	24130.7	0.0	24130.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	28102.0	0.0	28102.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1035.9	3.7
10°-20°	2211.7	7.9
20°-30°	2930.9	10.4
30°-40°	4259.4	15.2
40°-50°	6316.2	22.5
50°-60°	7898.1	28.1
60°-70°	3115.4	11.1
70°-80°	310.2	1.1
80°-90°	24.1	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°	28102.0	100.0
0°-180°	28102.0	100.0

Coefficient of Utilization



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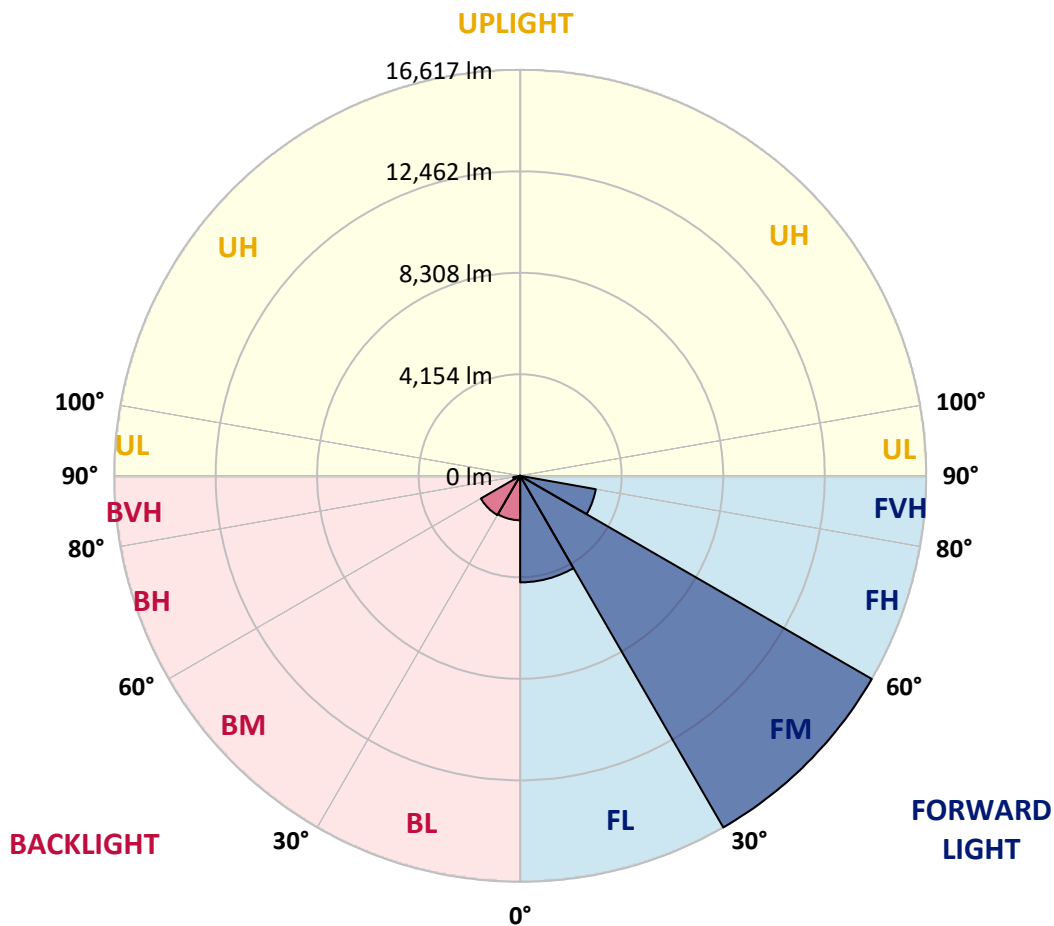
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4362.2	15.5			
FM (30°-60°)	16616.7	59.1			
FH (60°-80°)	3140.9	11.2			G2/5000
FVH (80°-90°)	11.0	0.0			G1/100
BL (0°-30°)	1816.3	6.5	B3/2500		
BM (30°-60°)	1857.1	6.6	B2/2500		
BH (60°-80°)	284.8	1.0	B1/500		G1/500
BVH (80°-90°)	13.2	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°	12379.3	12379.3	12379.3	12379.3	12379.3	12379.3	12379.3	12379.3	12379.3	12379.3	12379.3
2.5°	13100.4	12964.6	12975.0	12928.0	12865.3	12912.3	12708.5	12755.5	12750.3	12473.4	12290.5
5°	12771.2	12917.5	12766.0	12891.4	12771.2	12901.9	12776.5	12682.4	12530.9	12327.1	11987.4
7.5°	12212.1	12071.0	12112.8	12269.6	12295.7	12588.3	12431.6	12551.8	12489.0	12086.7	11621.6
10°	11088.6	11057.2	11266.3	11475.3	11731.3	12044.9	12165.1	12097.1	12050.1	11898.6	11276.7
12.5°	10226.4	10315.2	10310.0	10654.9	11088.6	11266.3	11579.8	11569.4	11830.6	11548.4	10952.7
15°	9406.0	9453.0	9672.5	9886.7	10367.5	10874.4	11261.0	11313.3	11626.8	11428.3	10701.9
17.5°	8904.3	8836.4	9008.8	9264.9	9756.1	10419.7	10848.2	10973.6	11402.1	11360.3	10414.5
20°	8407.9	8407.9	8549.0	8852.1	9301.5	10048.7	10811.6	10775.1	11402.1	11281.9	10106.2
22.5°	8240.7	8324.3	8360.9	8590.8	9123.8	9766.5	10654.9	10722.8	11491.0	11245.4	9970.3
25°	8470.6	8360.9	8371.3	8554.2	9055.9	9630.7	10539.9	10691.5	11653.0	11428.3	9860.6
27.5°	8507.2	8616.9	8648.3	8773.7	9108.1	9672.5	10827.3	11135.6	12055.3	11856.8	9892.0
30°	8825.9	8935.7	8930.5	9144.7	9374.6	10012.1	11470.1	11532.8	12886.2	12395.0	10085.3
32.5°	9212.6	9327.6	9364.2	9615.0	9797.9	10634.0	12253.9	12415.9	13685.7	13241.5	10592.2
35°	9693.4	9651.6	9818.8	10069.6	10461.5	11543.2	13210.2	13481.9	14547.9	14338.9	11114.7
37.5°	10294.3	10242.1	10404.1	10811.6	11344.7	12619.7	14093.3	14271.0	15175.0	15357.9	12081.5
40°	10717.6	10738.5	11229.7	11778.4	12342.7	13643.9	14652.4	14824.9	15613.9	16308.9	12813.0
42.5°	11423.0	11553.7	12144.2	12813.0	13403.5	14412.0	15107.0	15274.3	15817.7	17071.8	13800.7
45°	12447.2	12389.8	13043.0	13790.2	14443.4	15211.6	15645.3	15587.8	15937.9	17829.5	14422.5
47.5°	13764.1	13774.5	14208.2	14845.8	15525.1	15906.6	16246.2	16042.4	16188.7	18629.1	15253.4
50°	14662.9	14741.3	15091.4	15744.6	16084.2	16669.5	17103.2	16977.8	16930.8	19109.8	15775.9
52.5°	14892.8	15127.9	15316.1	16131.2	16925.5	17850.5	18404.4	18670.9	17834.8	19271.8	16439.6
55°	13157.9	13366.9	14030.6	15148.8	17244.3	19721.2	20484.1	20489.4	19015.7	19992.9	16904.6
57.5°	10519.0	10095.7	10503.3	11689.5	14579.3	19642.8	21497.9	21252.3	19606.2	19569.7	16502.3
60°	7274.0	7169.4	7195.6	7665.9	10090.5	15624.4	19156.8	19475.6	18054.2	16962.1	13063.9
62.5°	5763.8	5674.9	5560.0	5507.7	6265.4	9735.2	13513.3	13962.6	12624.9	10999.8	7744.3
65°	4514.9	4462.6	4478.3	4687.3	4682.1	5523.4	7388.9	7206.0	5769.0	4264.0	2435.1
67.5°	3046.5	3124.9	3187.6	3819.9	4143.9	3846.0	3569.0	3464.5	1876.0	789.1	538.2
70°	1714.0	1724.4	1792.4	2388.1	3145.8	2983.8	2461.2	2461.2	935.4	287.4	308.3
72.5°	935.4	904.0	841.3	1029.4	1400.4	1421.3	1097.4	956.3	277.0	188.1	172.4
75°	454.6	449.4	386.7	318.8	303.1	250.8	193.3	177.7	125.4	120.2	104.5
77.5°	94.1	88.8	47.0	47.0	52.3	57.5	73.2	73.2	88.8	88.8	73.2
80°	0.0	0.0	5.2	20.9	36.6	52.3	62.7	62.7	73.2	73.2	57.5
82.5°	0.0	0.0	5.2	15.7	31.4	47.0	57.5	62.7	73.2	78.4	62.7
85°	0.0	0.0	0.0	10.5	26.1	36.6	31.4	31.4	26.1	20.9	10.5
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°	12379.3	12379.3	12379.3	12379.3	12379.3	12379.3	12379.3	12379.3	12379.3	12379.3	12379.3
2.5°	12196.4	12186.0	11945.6	11809.7	11564.1	11349.9	11177.4	11052.0	11052.0	10973.6	10900.5
5°	11851.5	11762.7	11250.6	10921.4	10456.3	10111.4	9876.3	9693.4	9406.0	9484.4	9176.1
7.5°	11423.0	11198.3	10519.0	10017.4	9374.6	8883.4	8381.8	7937.6	7509.1	7315.8	7420.3
10°	10963.2	10571.3	9656.8	8862.5	8063.0	7164.2	6579.0	5868.3	5429.3	5403.2	5288.2
12.5°	10477.2	10033.0	8920.0	7822.6	6772.3	5690.6	4797.0	4133.4	3835.5	3506.3	3569.0
15°	10111.4	9453.0	8099.6	6777.5	5382.3	4290.2	3391.4	2879.3	2597.1	2518.7	2492.6
17.5°	9714.3	9008.8	7263.5	5664.5	4222.2	3088.3	2440.3	2194.7	2085.0	2085.0	2069.3
20°	9301.5	8507.2	6432.6	4629.8	3166.7	2304.5	1954.4	1876.0	1870.7	1865.5	1865.5
22.5°	9029.7	7932.4	5680.2	3678.8	2388.1	1844.6	1698.3	1666.9	1687.9	1750.6	1750.6
25°	8742.3	7378.5	4849.3	2837.5	1849.8	1583.3	1499.7	1520.6	1572.9	1630.4	1609.5
27.5°	8449.7	7017.9	4065.5	2226.1	1515.4	1384.8	1353.4	1400.4	1457.9	1510.2	1494.5
30°	8381.8	6631.2	3323.4	1687.9	1301.2	1207.1	1228.0	1269.8	1327.3	1348.2	1369.1
32.5°	8486.3	6328.1	2722.5	1384.8	1133.9	1107.8	1107.8	1128.7	1165.3	1212.3	1196.6
35°	8784.1	6155.7	2152.9	1201.9	1039.9	1013.8	1008.5	1029.4	1050.3	1066.0	1050.3
37.5°	9238.8	6019.8	1761.0	1066.0	977.2	935.4	924.9	919.7	940.6	945.8	956.3
40°	9818.8	6093.0	1494.5	982.4	914.5	867.4	836.1	836.1	836.1	851.8	857.0
42.5°	10445.9	6192.3	1290.7	935.4	857.0	799.5	768.2	757.7	768.2	789.1	783.8
45°	11104.3	6385.6	1160.1	862.2	804.7	731.6	689.8	679.3	705.4	747.3	742.0
47.5°	11720.9	6662.6	1060.8	815.2	752.5	684.5	632.3	621.8	668.9	726.4	731.6
50°	12337.5	7143.3	1024.2	778.6	715.9	637.5	590.5	580.0	632.3	705.4	721.1
52.5°	13048.2	7660.6	998.1	731.6	674.1	600.9	548.7	538.2	595.7	689.8	695.0
55°	13513.3	8099.6	977.2	648.0	595.7	543.5	501.7	496.4	559.1	642.7	663.6
57.5°	12969.8	7488.2	904.0	564.4	506.9	480.7	444.2	444.2	496.4	574.8	590.5
60°	9834.5	4927.7	642.7	454.6	428.5	412.8	397.1	397.1	438.9	496.4	501.7
62.5°	5758.5	2654.6	412.8	365.8	365.8	350.1	324.0	324.0	365.8	397.1	402.4
65°	1708.8	851.8	334.4	313.5	308.3	282.2	256.1	250.8	282.2	297.9	292.6
67.5°	491.2	391.9	277.0	261.3	256.1	214.2	198.6	193.3	198.6	188.1	182.9
70°	292.6	266.5	214.2	219.5	193.3	156.8	141.1	135.9	125.4	109.7	99.3
72.5°	162.0	162.0	156.8	167.2	135.9	104.5	88.8	73.2	57.5	47.0	41.8
75°	99.3	104.5	109.7	115.0	88.8	67.9	57.5	36.6	20.9	10.5	10.5
77.5°	67.9	73.2	78.4	83.6	73.2	62.7	47.0	26.1	5.2	0.0	0.0
80°	52.3	57.5	67.9	73.2	78.4	83.6	62.7	26.1	5.2	0.0	0.0
82.5°	57.5	62.7	78.4	73.2	73.2	73.2	57.5	26.1	5.2	0.0	0.0
85°	10.5	15.7	26.1	26.1	36.6	47.0	36.6	10.5	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)