

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: P531249

Luminaire Tested: **GALN-SA6C-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531249  
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-SA6C-735-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1050mA 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: 22712 lumens  
Efficiency: N/A  
Efficacy: 70.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

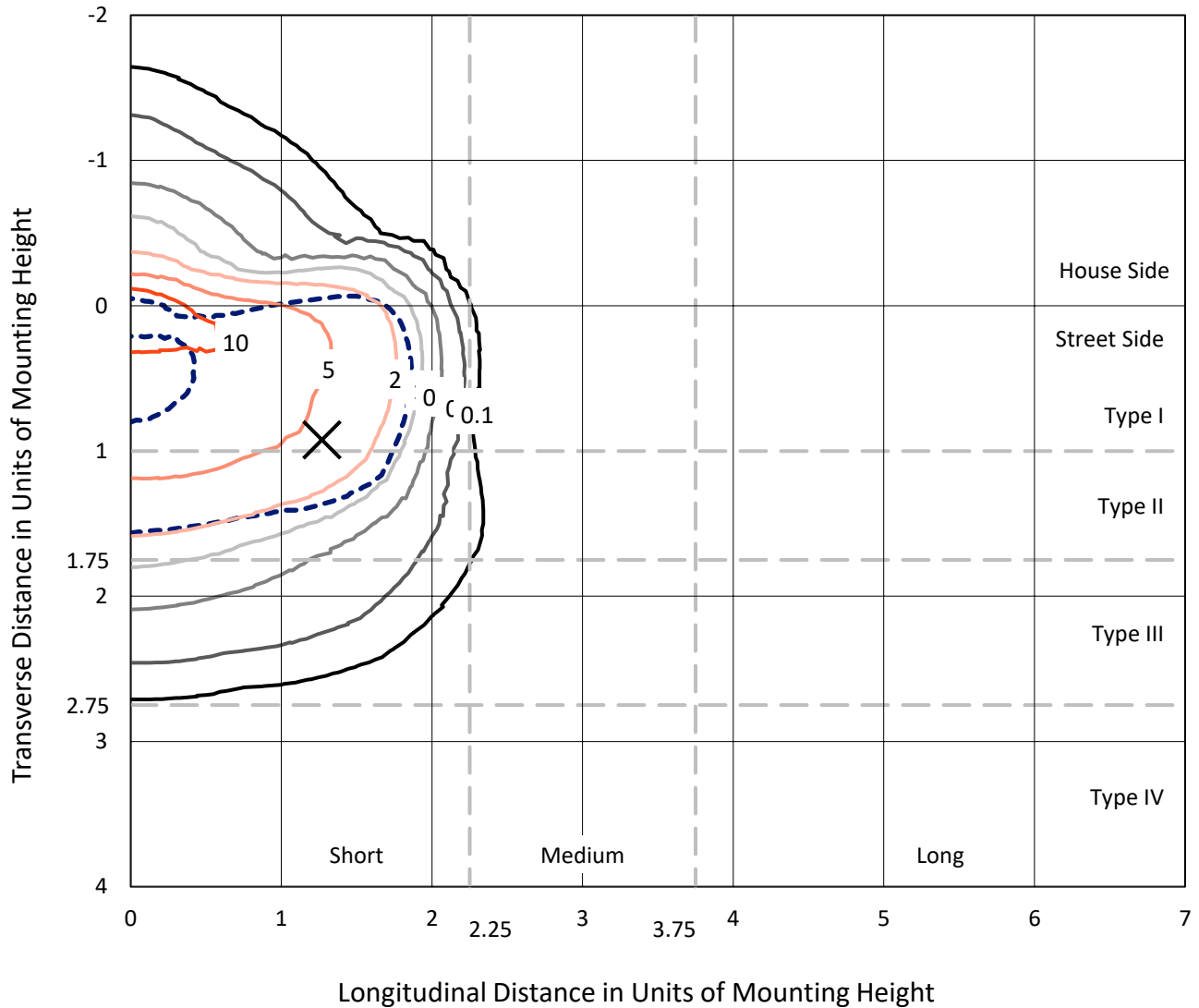
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

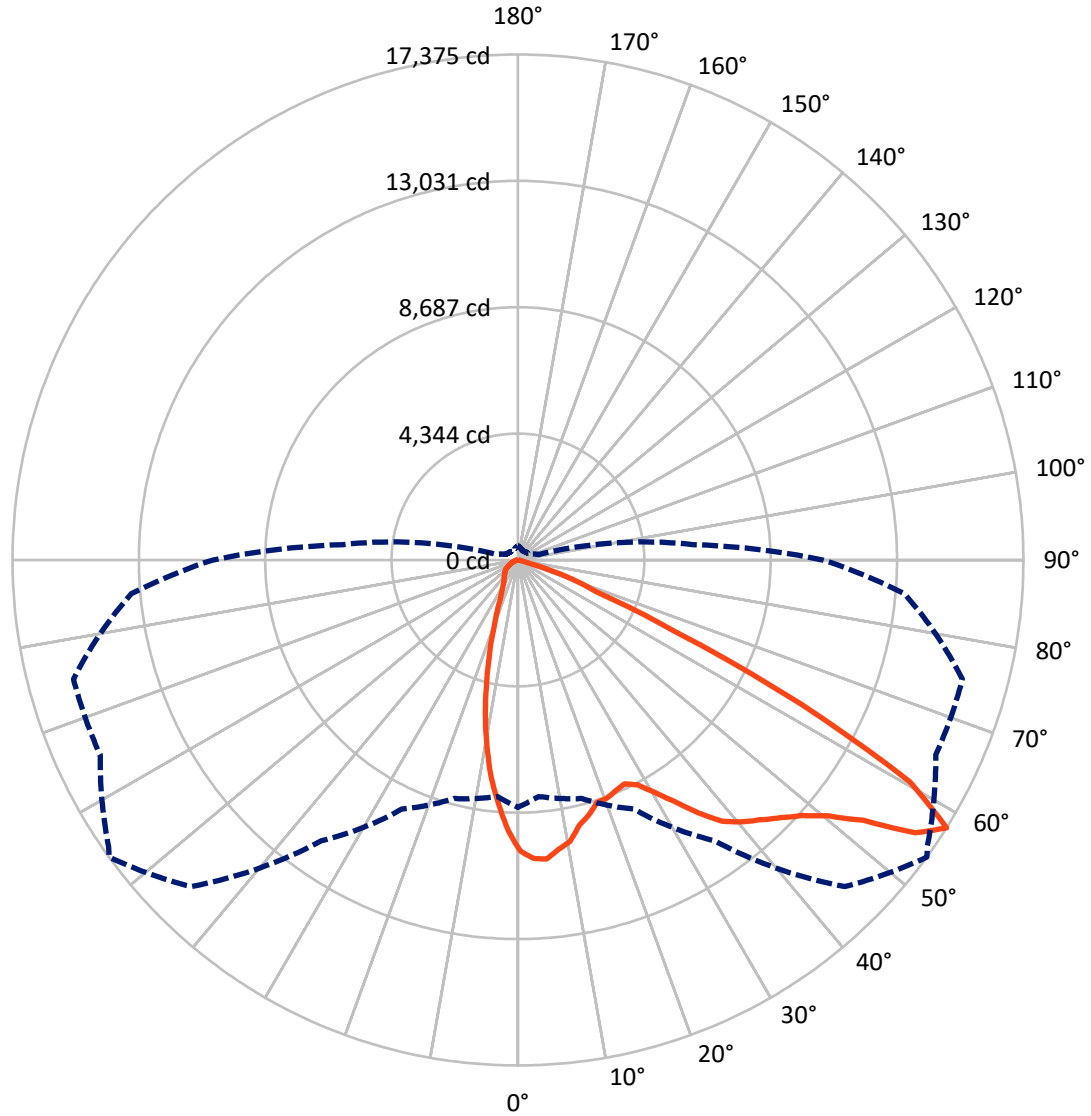
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 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
<b>House Side</b>	Lumens	3209.6	0.0	3209.6
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	19502.4	0.0	19502.4
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	22712.0	0.0	22712.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	837.2	3.7
10°-20°	1787.5	7.9
20°-30°	2368.8	10.4
30°-40°	3442.5	15.2
40°-50°	5104.7	22.5
50°-60°	6383.2	28.1
60°-70°	2517.9	11.1
70°-80°	250.7	1.1
80°-90°	19.5	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°	22712.0	100.0
0°-180°	22712.0	100.0

**Coefficient of Utilization**



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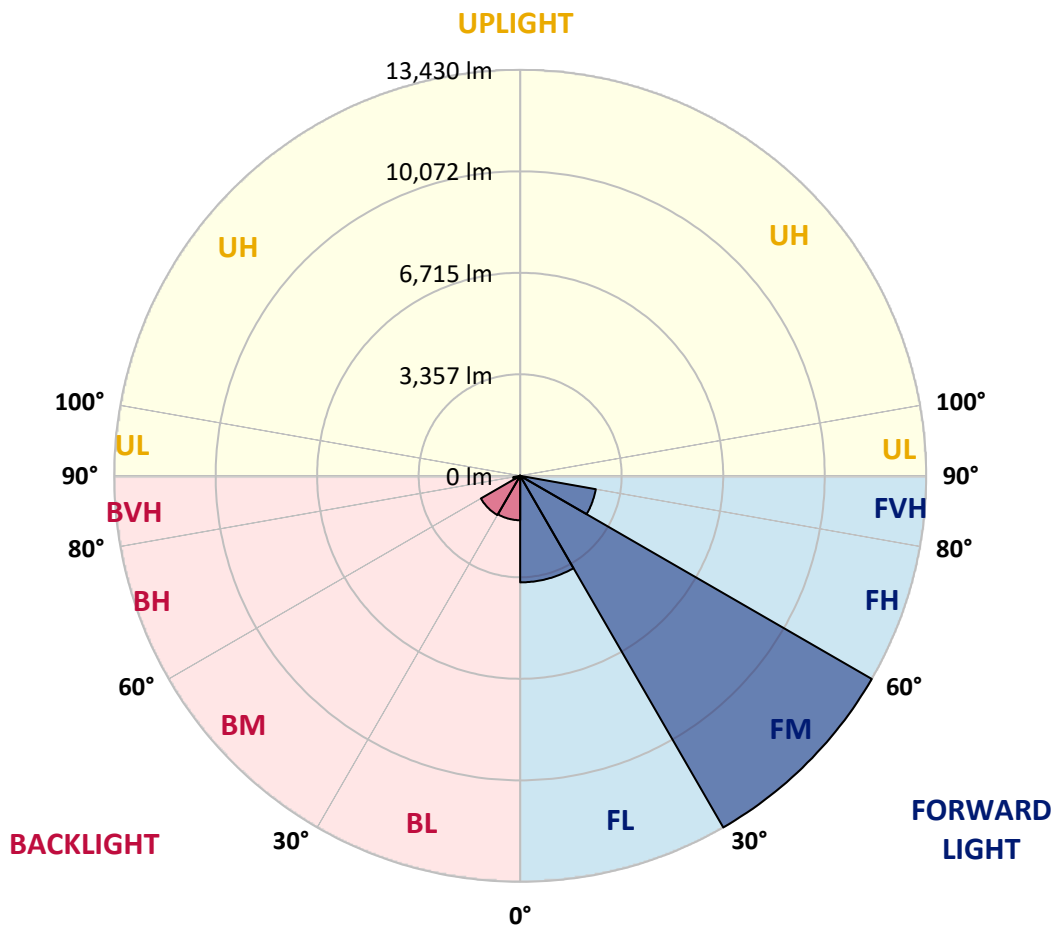
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3525.6	15.5			
FM (30°-60°)	13429.6	59.1			
FH (60°-80°)	2538.4	11.2			G2/5000
FVH (80°-90°)	8.8	0.0			G0/10
BL (0°-30°)	1467.9	6.5	B3/2500		
BM (30°-60°)	1500.9	6.6	B2/2500		
BH (60°-80°)	230.1	1.0	B1/500		G1/500
BVH (80°-90°)	10.6	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°	10004.9	10004.9	10004.9	10004.9	10004.9	10004.9	10004.9	10004.9	10004.9	10004.9	10004.9
2.5°	10587.8	10477.9	10486.4	10448.4	10397.7	10435.7	10271.0	10309.0	10304.8	10081.0	9933.1
5°	10321.7	10439.9	10317.5	10418.8	10321.7	10427.3	10325.9	10249.9	10127.4	9962.7	9688.2
7.5°	9869.8	9755.8	9789.6	9916.3	9937.4	10173.9	10047.2	10144.3	10093.6	9768.4	9392.6
10°	8961.8	8936.5	9105.4	9274.3	9481.3	9734.7	9831.8	9776.9	9738.9	9616.4	9113.8
12.5°	8265.0	8336.7	8332.5	8611.3	8961.8	9105.4	9358.8	9350.3	9561.5	9333.4	8852.0
15°	7601.9	7639.9	7817.3	7990.4	8379.0	8788.6	9101.2	9143.4	9396.8	9236.3	8649.3
17.5°	7196.5	7141.6	7280.9	7487.9	7884.9	8421.2	8767.5	8868.9	9215.2	9181.4	8417.0
20°	6795.3	6795.3	6909.3	7154.2	7517.4	8121.4	8738.0	8708.4	9215.2	9118.1	8167.8
22.5°	6660.1	6727.7	6757.2	6943.1	7373.8	7893.3	8611.3	8666.2	9287.0	9088.5	8058.0
25°	6845.9	6757.2	6765.7	6913.5	7318.9	7783.5	8518.3	8640.8	9417.9	9236.3	7969.3
27.5°	6875.5	6964.2	6989.5	7090.9	7361.2	7817.3	8750.6	8999.8	9743.1	9582.6	7994.7
30°	7133.1	7221.8	7217.6	7390.7	7576.6	8091.8	9270.1	9320.8	10414.6	10017.6	8150.9
32.5°	7445.6	7538.5	7568.1	7770.8	7918.6	8594.4	9903.6	10034.5	11060.8	10701.8	8560.6
35°	7834.2	7800.4	7935.5	8138.3	8455.0	9329.2	10676.4	10896.1	11757.6	11588.7	8982.9
37.5°	8319.9	8277.6	8408.5	8738.0	9168.7	10199.2	11390.2	11533.8	12264.4	12412.2	9764.2
40°	8661.9	8678.8	9075.8	9519.3	9975.4	11027.0	11842.1	11981.4	12619.1	13180.8	10355.5
42.5°	9232.1	9337.7	9814.9	10355.5	10832.7	11647.8	12209.5	12344.6	12783.9	13797.4	11153.7
45°	10059.8	10013.4	10541.3	11145.2	11673.1	12294.0	12644.5	12598.0	12881.0	14409.8	11656.2
47.5°	11124.1	11132.6	11483.1	11998.3	12547.4	12855.7	13130.2	12965.5	13083.7	15056.0	12327.7
50°	11850.5	11913.9	12196.8	12724.7	12999.2	13472.3	13822.8	13721.4	13683.4	15444.5	12750.1
52.5°	12036.3	12226.4	12378.4	13037.3	13679.2	14426.7	14874.4	15089.8	14414.0	15575.4	13286.4
55°	10634.2	10803.1	11339.5	12243.3	13936.8	15938.6	16555.2	16559.5	15368.5	16158.3	13662.3
57.5°	8501.5	8159.4	8488.8	9447.5	11782.9	15875.3	17374.6	17176.1	15845.7	15816.2	13337.1
60°	5878.8	5794.3	5815.5	6195.5	8155.1	12627.6	15482.5	15740.2	14591.4	13708.8	10558.2
62.5°	4658.3	4586.5	4493.6	4451.3	5063.7	7868.0	10921.4	11284.6	10203.4	8890.0	6258.9
65°	3648.9	3606.7	3619.3	3788.3	3784.1	4464.0	5971.7	5823.9	4662.5	3446.2	1968.0
67.5°	2462.2	2525.5	2576.2	3087.2	3349.1	3108.3	2884.5	2800.0	1516.2	637.7	435.0
70°	1385.2	1393.7	1448.6	1930.0	2542.4	2411.5	1989.2	1989.2	756.0	232.3	249.2
72.5°	756.0	730.6	679.9	832.0	1131.8	1148.7	886.9	772.9	223.8	152.0	139.4
75°	367.4	363.2	312.5	257.6	245.0	202.7	156.3	143.6	101.4	97.1	84.5
77.5°	76.0	71.8	38.0	38.0	42.2	46.5	59.1	59.1	71.8	71.8	59.1
80°	0.0	0.0	4.2	16.9	29.6	42.2	50.7	50.7	59.1	59.1	46.5
82.5°	0.0	0.0	4.2	12.7	25.3	38.0	46.5	50.7	59.1	63.3	50.7
85°	0.0	0.0	0.0	8.4	21.1	29.6	25.3	25.3	21.1	16.9	8.4
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°	10004.9	10004.9	10004.9	10004.9	10004.9	10004.9	10004.9	10004.9	10004.9	10004.9	10004.9
2.5°	9857.1	9848.7	9654.4	9544.6	9346.1	9173.0	9033.6	8932.2	8932.2	8868.9	8809.8
5°	9578.4	9506.6	9092.7	8826.6	8450.8	8172.0	7982.0	7834.2	7601.9	7665.2	7416.1
7.5°	9232.1	9050.5	8501.5	8096.0	7576.6	7179.6	6774.1	6415.2	6068.8	5912.6	5997.1
10°	8860.4	8543.7	7804.6	7162.7	6516.5	5790.1	5317.1	4742.7	4388.0	4366.9	4274.0
12.5°	8467.7	8108.7	7209.1	6322.2	5473.4	4599.1	3877.0	3340.6	3099.9	2833.8	2884.5
15°	8172.0	7639.9	6546.1	5477.6	4350.0	3467.3	2740.9	2327.0	2099.0	2035.6	2014.5
17.5°	7851.1	7280.9	5870.4	4578.0	3412.4	2496.0	1972.3	1773.8	1685.1	1685.1	1672.4
20°	7517.4	6875.5	5198.9	3741.8	2559.3	1862.5	1579.5	1516.2	1511.9	1507.7	1507.7
22.5°	7297.8	6410.9	4590.7	2973.2	1930.0	1490.8	1372.6	1347.2	1364.1	1414.8	1414.8
25°	7065.5	5963.3	3919.2	2293.2	1495.0	1279.7	1212.1	1229.0	1271.2	1317.7	1300.8
27.5°	6829.0	5671.9	3285.7	1799.1	1224.8	1119.2	1093.8	1131.8	1178.3	1220.5	1207.9
30°	6774.1	5359.3	2686.0	1364.1	1051.6	975.6	992.5	1026.3	1072.7	1089.6	1106.5
32.5°	6858.6	5114.4	2200.3	1119.2	916.5	895.3	895.3	912.2	941.8	979.8	967.1
35°	7099.3	4975.0	1740.0	971.4	840.4	819.3	815.1	832.0	848.9	861.5	848.9
37.5°	7466.8	4865.2	1423.2	861.5	789.8	756.0	747.5	743.3	760.2	764.4	772.9
40°	7935.5	4924.3	1207.9	794.0	739.1	701.1	675.7	675.7	675.7	688.4	692.6
42.5°	8442.3	5004.6	1043.1	756.0	692.6	646.2	620.8	612.4	620.8	637.7	633.5
45°	8974.5	5160.8	937.6	696.8	650.4	591.3	557.5	549.0	570.1	603.9	599.7
47.5°	9472.8	5384.7	857.3	658.8	608.2	553.2	511.0	502.6	540.6	587.0	591.3
50°	9971.2	5773.2	827.8	629.3	578.6	515.2	477.2	468.8	511.0	570.1	582.8
52.5°	10545.5	6191.3	806.6	591.3	544.8	485.7	443.4	435.0	481.5	557.5	561.7
55°	10921.4	6546.1	789.8	523.7	481.5	439.2	405.4	401.2	451.9	519.5	536.4
57.5°	10482.2	6052.0	730.6	456.1	409.7	388.5	359.0	359.0	401.2	464.6	477.2
60°	7948.2	3982.5	519.5	367.4	346.3	333.6	321.0	321.0	354.8	401.2	405.4
62.5°	4654.1	2145.4	333.6	295.6	295.6	283.0	261.8	261.8	295.6	321.0	325.2
65°	1381.0	688.4	270.3	253.4	249.2	228.1	206.9	202.7	228.1	240.7	236.5
67.5°	397.0	316.7	223.8	211.2	206.9	173.2	160.5	156.3	160.5	152.0	147.8
70°	236.5	215.4	173.2	177.4	156.3	126.7	114.0	109.8	101.4	88.7	80.2
72.5°	130.9	130.9	126.7	135.1	109.8	84.5	71.8	59.1	46.5	38.0	33.8
75°	80.2	84.5	88.7	92.9	71.8	54.9	46.5	29.6	16.9	8.4	8.4
77.5°	54.9	59.1	63.3	67.6	59.1	50.7	38.0	21.1	4.2	0.0	0.0
80°	42.2	46.5	54.9	59.1	63.3	67.6	50.7	21.1	4.2	0.0	0.0
82.5°	46.5	50.7	63.3	59.1	59.1	59.1	46.5	21.1	4.2	0.0	0.0
85°	8.4	12.7	21.1	21.1	29.6	38.0	29.6	8.4	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)