

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: P532523

Luminaire Tested: **GALN-SA7D-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532523  
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-SA7D-827-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 1200mA 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: 23164 lumens  
Efficiency: N/A  
Efficacy: 53.5 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

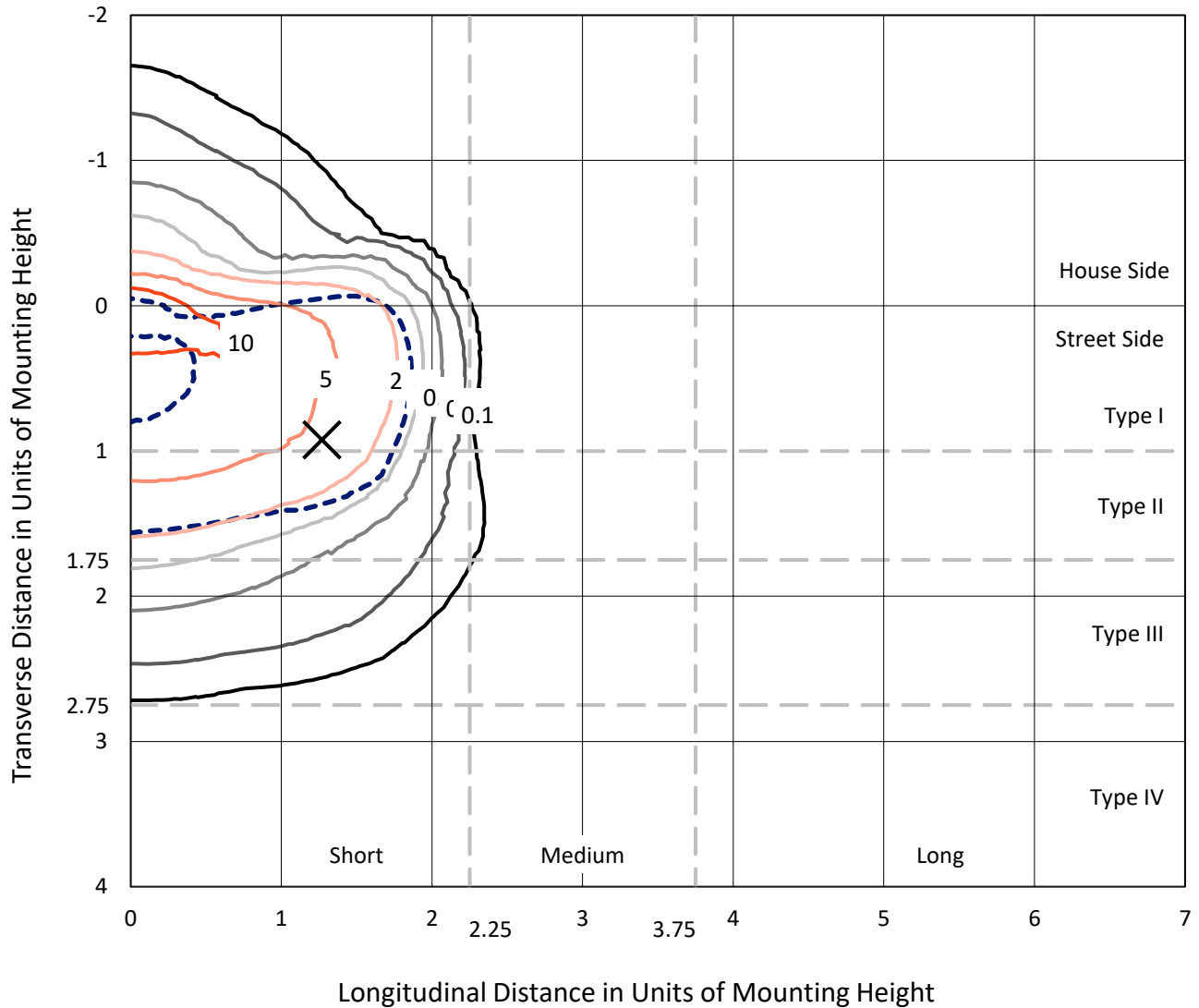
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

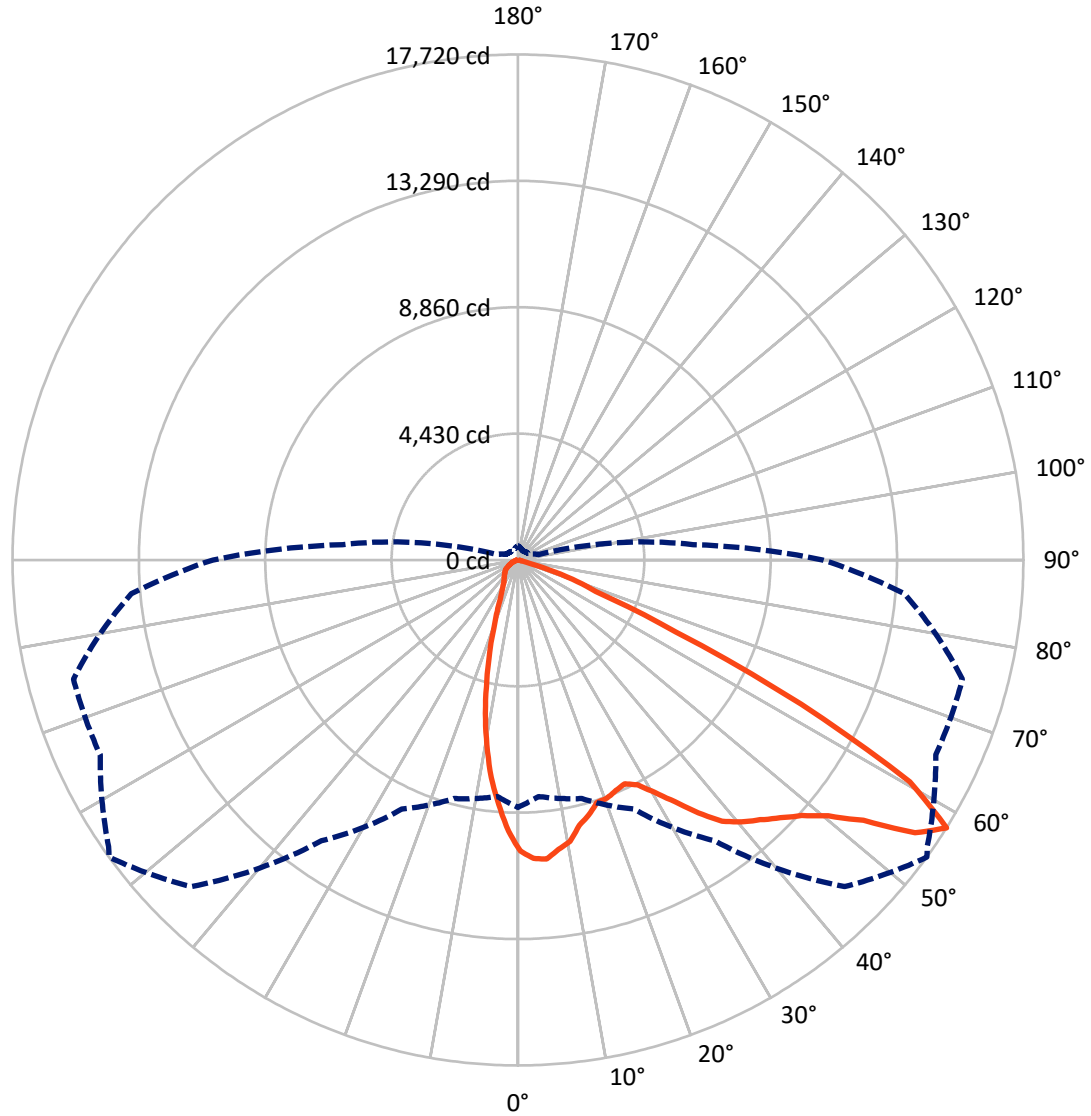
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 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	3273.5	0.0	3273.5
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	19890.5	0.0	19890.5
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	23164.0	0.0	23164.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	853.9	3.7
10°-20°	1823.0	7.9
20°-30°	2415.9	10.4
30°-40°	3511.0	15.2
40°-50°	5206.3	22.5
50°-60°	6510.3	28.1
60°-70°	2568.0	11.1
70°-80°	255.7	1.1
80°-90°	19.9	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°	23164.0	100.0
0°-180°	23164.0	100.0

**Coefficient of Utilization**



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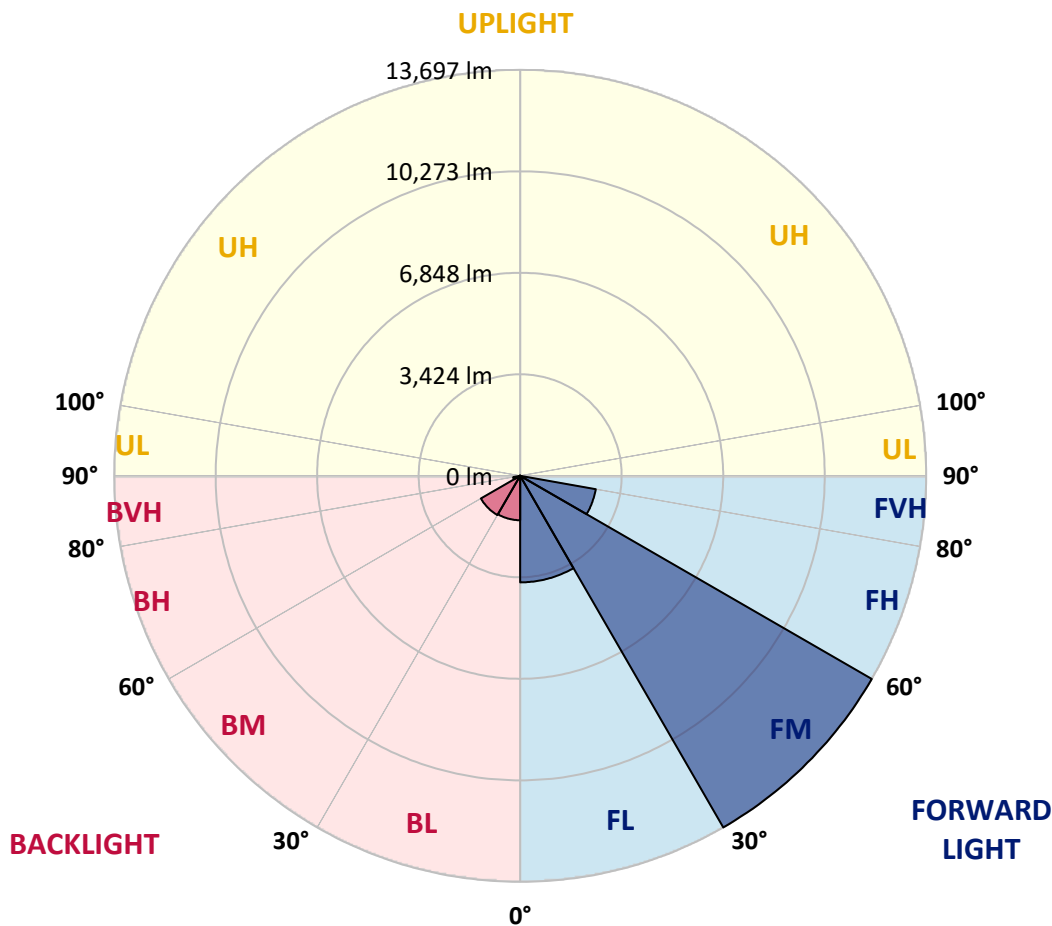
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3595.7	15.5			
FM (30°-60°)	13696.8	59.1			
FH (60°-80°)	2589.0	11.2			G2/5000
FVH (80°-90°)	9.0	0.0			G0/10
BL (0°-30°)	1497.1	6.5	B3/2500		
BM (30°-60°)	1530.8	6.6	B2/2500		
BH (60°-80°)	234.7	1.0	B1/500		G1/500
BVH (80°-90°)	10.9	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°	10204.1	10204.1	10204.1	10204.1	10204.1	10204.1	10204.1	10204.1	10204.1	10204.1	10204.1
2.5°	10798.5	10686.5	10695.1	10656.3	10604.6	10643.4	10475.4	10514.2	10509.9	10281.6	10130.8
5°	10527.1	10647.7	10522.8	10626.2	10527.1	10634.8	10531.4	10453.9	10329.0	10161.0	9881.0
7.5°	10066.2	9949.9	9984.4	10113.6	10135.1	10376.3	10247.1	10346.2	10294.5	9962.8	9579.5
10°	9140.1	9114.3	9286.6	9458.9	9669.9	9928.4	10027.5	9971.5	9932.7	9807.8	9295.2
12.5°	8429.4	8502.7	8498.4	8782.6	9140.1	9286.6	9545.0	9536.4	9751.8	9519.2	9028.2
15°	7753.2	7792.0	7972.9	8149.5	8545.7	8963.5	9282.3	9325.4	9583.8	9420.1	8821.4
17.5°	7339.7	7283.7	7425.8	7636.9	8041.8	8588.8	8942.0	9045.4	9398.6	9364.1	8584.5
20°	6930.5	6930.5	7046.8	7296.6	7667.0	8283.0	8911.9	8881.7	9398.6	9299.5	8330.4
22.5°	6792.7	6861.6	6891.7	7081.2	7520.6	8050.4	8782.6	8838.6	9471.8	9269.4	8218.4
25°	6982.2	6891.7	6900.3	7051.1	7464.6	7938.4	8687.9	8812.8	9605.3	9420.1	8127.9
27.5°	7012.3	7102.8	7128.6	7232.0	7507.7	7972.9	8924.8	9178.9	9937.0	9773.3	8153.8
30°	7275.1	7365.5	7361.2	7537.8	7727.3	8252.8	9454.6	9506.3	10621.9	10217.0	8313.1
32.5°	7593.8	7688.6	7718.7	7925.5	8076.2	8765.4	10100.7	10234.2	11280.9	10914.8	8730.9
35°	7990.1	7955.6	8093.5	8300.2	8623.3	9514.9	10888.9	11112.9	11991.6	11819.3	9161.7
37.5°	8485.4	8442.4	8575.9	8911.9	9351.2	10402.2	11616.9	11763.3	12508.5	12659.2	9958.5
40°	8834.3	8851.6	9256.4	9708.7	10173.9	11246.4	12077.7	12219.9	12870.3	13443.2	10561.6
42.5°	9415.8	9523.5	10010.2	10561.6	11048.3	11879.6	12452.5	12590.3	13038.3	14072.0	11375.6
45°	10260.0	10212.7	10751.1	11367.0	11905.4	12538.6	12896.1	12848.8	13137.3	14696.6	11888.2
47.5°	11345.5	11354.1	11711.6	12237.1	12797.1	13111.5	13391.5	13223.5	13344.1	15355.6	12573.1
50°	12086.4	12151.0	12439.6	12978.0	13257.9	13740.4	14097.9	13994.5	13955.7	15751.9	13003.8
52.5°	12275.9	12469.7	12624.8	13296.7	13951.4	14713.8	15170.4	15390.1	14700.9	15885.4	13550.8
55°	10845.8	11018.1	11565.2	12486.9	14214.2	16255.8	16884.7	16889.0	15674.4	16479.8	13934.2
57.5°	8670.6	8321.8	8657.7	9635.5	12017.4	16191.2	17720.3	17517.9	16161.1	16130.9	13602.5
60°	5995.8	5909.7	5931.2	6318.8	8317.4	12878.9	15790.7	16053.4	14881.8	13981.6	10768.3
62.5°	4751.0	4677.8	4583.0	4539.9	5164.5	8024.5	11138.7	11509.2	10406.5	9066.9	6383.5
65°	3721.5	3678.5	3691.4	3863.7	3859.4	4552.8	6090.6	5939.8	4755.3	3514.8	2007.2
67.5°	2511.2	2575.8	2627.5	3148.7	3415.7	3170.2	2941.9	2855.8	1546.3	650.4	443.7
70°	1412.8	1421.4	1477.4	1968.4	2593.0	2459.5	2028.8	2028.8	771.0	236.9	254.1
72.5°	771.0	745.2	693.5	848.5	1154.4	1171.6	904.5	788.2	228.3	155.1	142.1
75°	374.7	370.4	318.7	262.7	249.8	206.8	159.4	146.4	103.4	99.1	86.1
77.5°	77.5	73.2	38.8	38.8	43.1	47.4	60.3	60.3	73.2	73.2	60.3
80°	0.0	0.0	4.3	17.2	30.2	43.1	51.7	51.7	60.3	60.3	47.4
82.5°	0.0	0.0	4.3	12.9	25.8	38.8	47.4	51.7	60.3	64.6	51.7
85°	0.0	0.0	0.0	8.6	21.5	30.2	25.8	25.8	21.5	17.2	8.6
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°	10204.1	10204.1	10204.1	10204.1	10204.1	10204.1	10204.1	10204.1	10204.1	10204.1	10204.1
2.5°	10053.3	10044.7	9846.5	9734.6	9532.1	9355.5	9213.4	9110.0	9110.0	9045.4	8985.1
5°	9769.0	9695.8	9273.7	9002.3	8619.0	8334.7	8140.8	7990.1	7753.2	7817.8	7563.7
7.5°	9415.8	9230.6	8670.6	8257.1	7727.3	7322.5	6908.9	6542.8	6189.6	6030.3	6116.4
10°	9036.8	8713.7	7959.9	7305.2	6646.2	5905.3	5422.9	4837.1	4475.3	4453.8	4359.0
12.5°	8636.2	8270.1	7352.6	6448.1	5582.3	4690.7	3954.1	3407.1	3161.6	2890.2	2941.9
15°	8334.7	7792.0	6676.4	5586.6	4436.5	3536.3	2795.5	2373.3	2140.7	2076.1	2054.6
17.5°	8007.3	7425.8	5987.2	4669.1	3480.3	2545.6	2011.5	1809.1	1718.6	1718.6	1705.7
20°	7667.0	7012.3	5302.3	3816.3	2610.2	1899.5	1610.9	1546.3	1542.0	1537.7	1537.7
22.5°	7443.1	6538.5	4682.1	3032.4	1968.4	1520.5	1399.9	1374.0	1391.3	1443.0	1443.0
25°	7206.2	6081.9	3997.2	2338.9	1524.8	1305.1	1236.2	1253.4	1296.5	1343.9	1326.7
27.5°	6964.9	5784.7	3351.1	1834.9	1249.1	1141.4	1115.6	1154.4	1201.7	1244.8	1231.9
30°	6908.9	5466.0	2739.5	1391.3	1072.5	995.0	1012.2	1046.7	1094.1	1111.3	1128.5
32.5°	6995.1	5216.2	2244.1	1141.4	934.7	913.2	913.2	930.4	960.5	999.3	986.4
35°	7240.6	5074.0	1774.6	990.7	857.2	835.6	831.3	848.5	865.8	878.7	865.8
37.5°	7615.4	4962.0	1451.6	878.7	805.5	771.0	762.4	758.1	775.3	779.6	788.2
40°	8093.5	5022.3	1231.9	809.8	753.8	715.0	689.2	689.2	689.2	702.1	706.4
42.5°	8610.3	5104.2	1063.9	771.0	706.4	659.0	633.2	624.6	633.2	650.4	646.1
45°	9153.1	5263.6	956.2	710.7	663.3	603.0	568.6	560.0	581.5	615.9	611.6
47.5°	9661.3	5491.8	874.4	671.9	620.3	564.3	521.2	512.6	551.3	598.7	603.0
50°	10169.6	5888.1	844.2	641.8	590.1	525.5	486.7	478.1	521.2	581.5	594.4
52.5°	10755.4	6314.5	822.7	603.0	555.6	495.3	452.3	443.7	491.0	568.6	572.9
55°	11138.7	6676.4	805.5	534.1	491.0	448.0	413.5	409.2	460.9	529.8	547.0
57.5°	10690.8	6172.4	745.2	465.2	417.8	396.3	366.1	366.1	409.2	473.8	486.7
60°	8106.4	4061.8	529.8	374.7	353.2	340.3	327.4	327.4	361.8	409.2	413.5
62.5°	4746.7	2188.1	340.3	301.5	301.5	288.6	267.1	267.1	301.5	327.4	331.7
65°	1408.5	702.1	275.7	258.4	254.1	232.6	211.1	206.8	232.6	245.5	241.2
67.5°	404.9	323.0	228.3	215.4	211.1	176.6	163.7	159.4	163.7	155.1	150.8
70°	241.2	219.7	176.6	180.9	159.4	129.2	116.3	112.0	103.4	90.5	81.8
72.5°	133.5	133.5	129.2	137.8	112.0	86.1	73.2	60.3	47.4	38.8	34.5
75°	81.8	86.1	90.5	94.8	73.2	56.0	47.4	30.2	17.2	8.6	8.6
77.5°	56.0	60.3	64.6	68.9	60.3	51.7	38.8	21.5	4.3	0.0	0.0
80°	43.1	47.4	56.0	60.3	64.6	68.9	51.7	21.5	4.3	0.0	0.0
82.5°	47.4	51.7	64.6	60.3	60.3	60.3	47.4	21.5	4.3	0.0	0.0
85°	8.6	12.9	21.5	21.5	30.2	38.8	30.2	8.6	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)