

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: P650936

Luminaire Tested: **GALN-SA5C-840-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650936
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-840-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21419.4 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

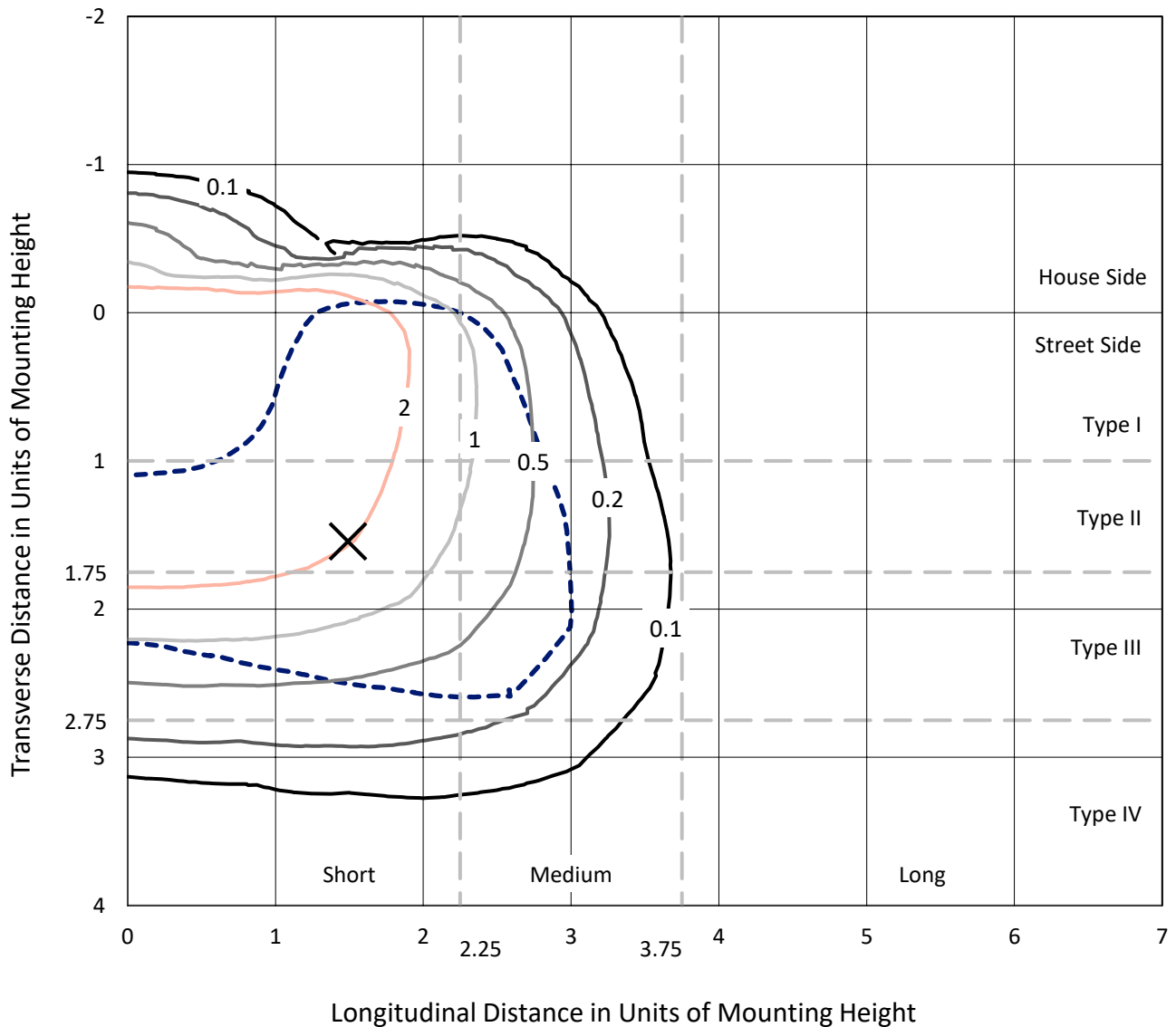
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

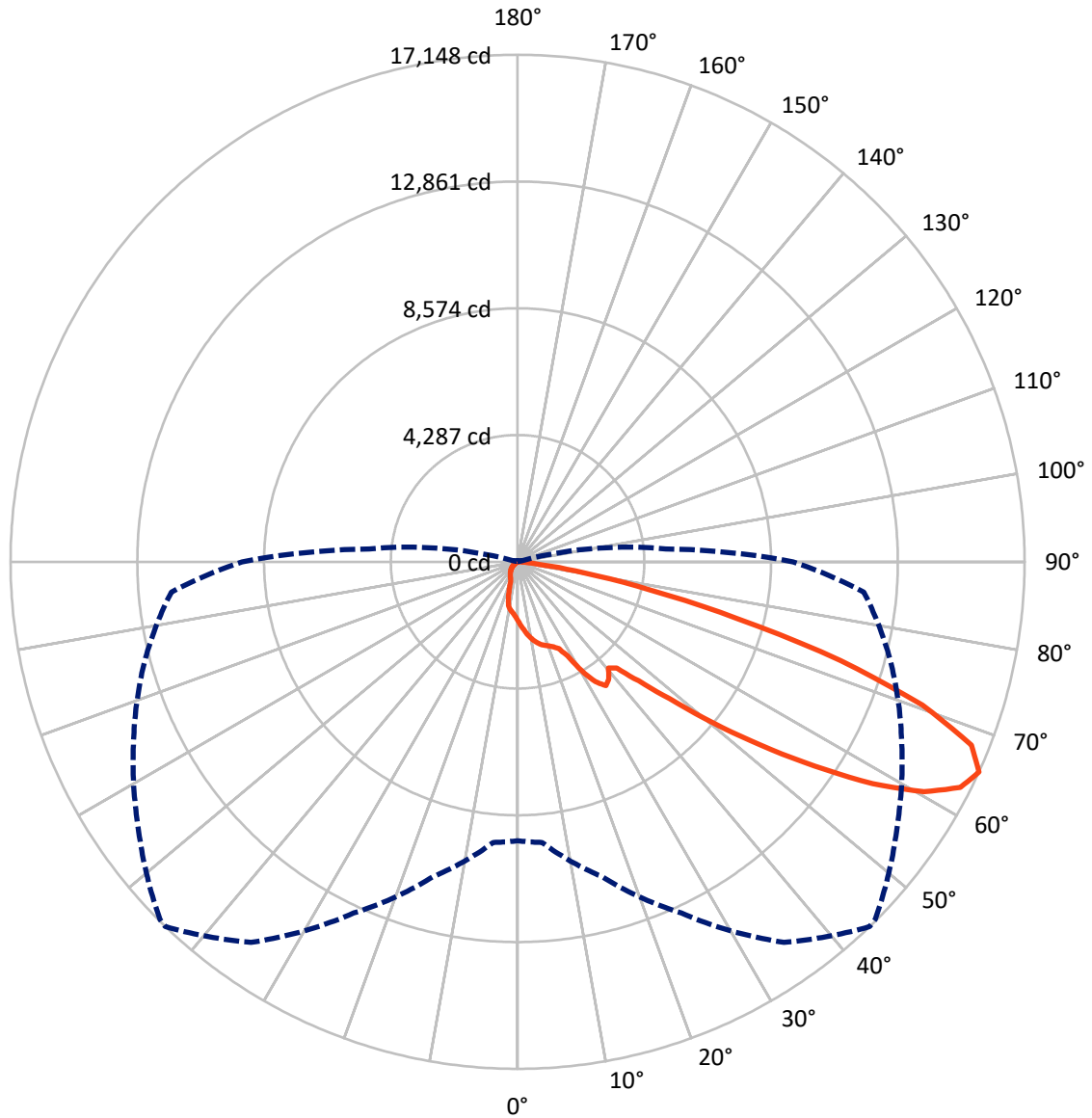
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1973.5	0.0	1973.5
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	19446.0	0.0	19446.0
	% Fixture	90.8	0.0	90.8
Total	Lumens	21419.4	0.0	21419.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.3	0.9
10°-20°	596.7	2.8
20°-30°	1011.9	4.7
30°-40°	1682.4	7.9
40°-50°	2937.5	13.7
50°-60°	5738.8	26.8
60°-70°	6658.4	31.1
70°-80°	2424.6	11.3
80°-90°	170.8	0.8
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°	21419.4	100.0
0°-180°	21419.4	100.0

Coefficient of Utilization



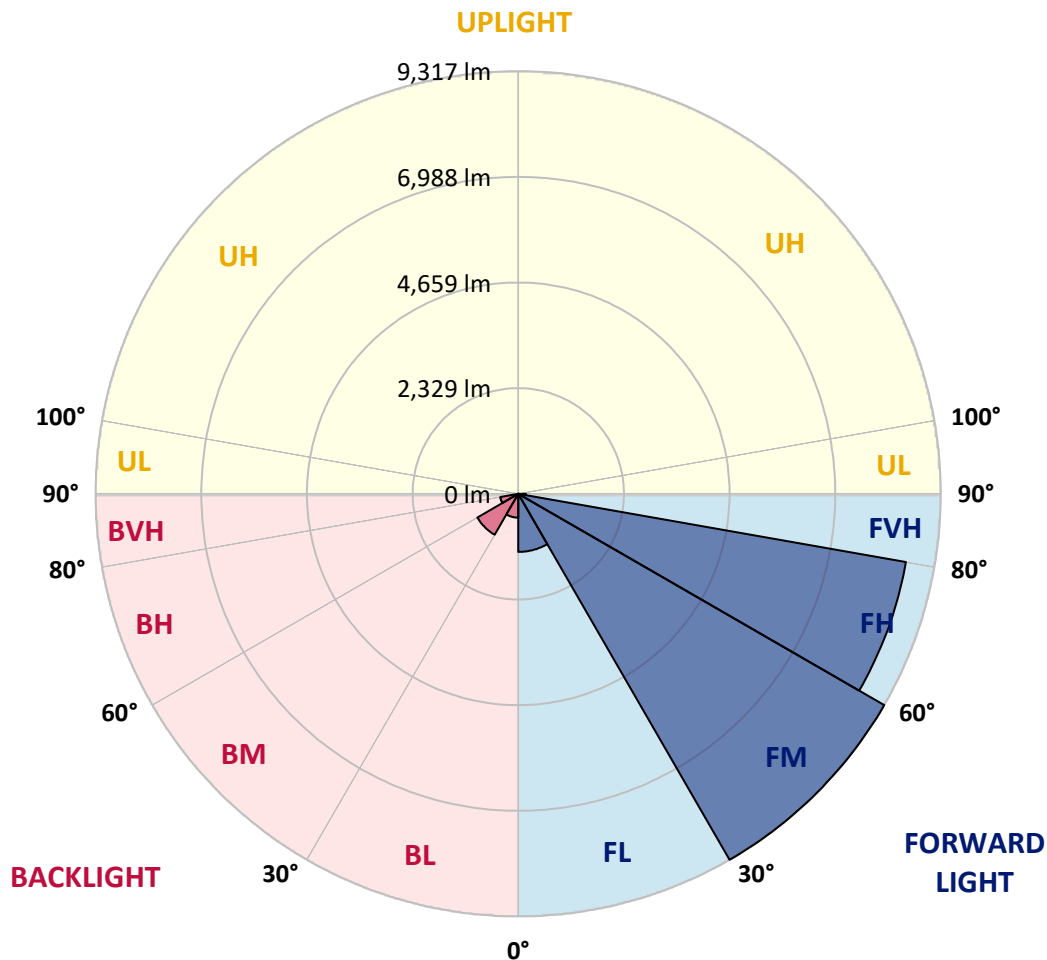
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1281.1	6.0			
FM (30°-60°)	9317.5	43.5			
FH (60°-80°)	8678.9	40.5			G4/12000
FVH (80°-90°)	168.5	0.8			G2/225
BL (0°-30°)	525.8	2.5	B2/1000		
BM (30°-60°)	1041.2	4.9	B2/2500		
BH (60°-80°)	404.1	1.9	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1993.5	1993.5	1993.5	1993.5	1993.5	1993.5	1993.5	1993.5	1993.5	1993.5	1993.5
2.5°	2244.0	2234.1	2229.2	2203.0	2183.4	2158.8	2158.8	2127.7	2091.7	2052.5	2016.5
5°	2494.3	2478.0	2456.7	2433.8	2387.9	2322.5	2322.5	2257.0	2181.7	2114.6	2040.9
7.5°	2734.9	2720.2	2684.2	2640.0	2564.7	2496.0	2491.0	2396.2	2306.1	2204.7	2099.9
10°	2946.1	2934.6	2903.6	2818.4	2739.8	2649.8	2648.2	2541.8	2437.0	2312.7	2183.4
12.5°	3093.4	3095.0	3054.1	2972.3	2870.8	2785.6	2779.2	2674.4	2564.7	2430.5	2271.7
15°	3198.2	3198.2	3155.6	3063.9	2972.3	2897.0	2890.4	2798.8	2685.8	2540.2	2368.3
17.5°	3227.6	3237.4	3191.6	3109.8	3036.1	2970.7	2969.0	2892.0	2802.0	2661.3	2466.5
20°	3216.2	3226.0	3189.9	3126.1	3075.4	3037.7	3032.8	3001.7	2918.3	2785.6	2571.3
22.5°	3191.6	3201.4	3175.2	3137.6	3113.0	3124.5	3116.3	3142.5	3098.3	2937.9	2695.7
25°	3196.5	3206.3	3186.6	3165.4	3186.6	3257.0	3278.3	3391.2	3352.0	3131.0	2829.9
27.5°	3350.4	3370.0	3342.1	3352.0	3427.2	3590.9	3631.9	3826.6	3653.1	3376.5	3039.4
30°	3692.4	3679.3	3627.0	3674.4	3936.3	4283.3	4271.8	4240.7	3969.0	3659.7	3288.1
32.5°	4003.4	3991.9	3988.7	4193.2	4667.9	4836.5	4828.3	4527.1	4252.2	3983.7	3533.6
35°	4129.4	4085.2	4075.4	4571.3	5365.2	5142.5	5091.8	4645.0	4595.9	4337.3	3784.1
37.5°	4509.1	4478.1	4325.9	4633.5	5086.9	5013.2	4973.9	4847.9	4962.5	4649.9	4067.2
40°	5291.5	5204.7	5067.3	4766.1	4692.4	4723.6	4762.8	5108.1	5396.2	5077.0	4445.3
42.5°	6263.7	6244.0	5988.7	5427.3	4875.8	4918.3	4969.0	5651.5	6019.8	5720.3	5062.3
45°	7430.7	7458.5	7090.2	6427.3	5703.9	5739.9	5813.6	6453.5	6864.3	6720.3	6032.9
47.5°	8491.2	8470.0	8345.6	7656.5	6988.7	6908.6	7028.0	7483.0	8033.0	8055.9	7237.6
50°	9558.4	9671.3	9486.4	9216.3	8720.4	8551.8	8507.6	8730.2	9568.2	9458.6	8684.3
52.5°	11091.9	11150.9	10803.9	10735.2	10848.1	10301.4	10257.3	10311.2	11060.8	10684.4	9767.9
55°	12056.0	12021.6	11892.3	12429.1	12876.0	12193.5	12137.8	11920.2	12299.9	11550.2	10810.5
57.5°	12360.4	12409.5	12710.7	13681.2	14738.5	14159.2	14057.7	13439.0	13193.5	12357.1	11769.5
60°	12224.6	12314.6	12964.4	14407.9	15874.5	15787.7	15701.0	14661.7	13835.1	13031.5	12442.3
62.5°	11257.3	11383.3	12422.6	14278.7	16259.1	16800.8	16692.8	15424.4	14262.3	13358.8	12560.1
65°	9434.0	9527.3	11020.0	13105.1	15712.4	17147.8	17108.5	15663.3	14329.4	13059.3	11753.2
67.5°	6725.2	7042.8	8425.8	11044.5	14095.3	16555.3	16622.4	15376.8	13699.2	11764.7	9733.5
70°	4227.6	4443.7	5435.5	7906.9	11299.8	14524.2	14745.1	14065.9	11889.0	9170.4	6515.7
72.5°	2016.5	2176.8	2883.9	5005.0	7975.7	11427.5	11602.6	11547.0	9193.4	5777.6	3361.8
75°	898.5	959.1	1376.5	2554.9	5149.1	7681.1	8134.4	8209.8	5744.9	2826.6	1307.8
77.5°	458.3	459.9	644.9	1237.4	2571.3	4582.8	4672.8	4936.3	3114.6	1245.5	455.0
80°	243.9	260.2	342.0	584.3	1333.9	2257.0	2245.6	2468.2	1381.3	610.5	152.2
82.5°	109.7	121.1	193.1	306.0	651.4	856.0	923.1	1009.9	592.5	389.6	67.1
85°	32.7	39.3	94.9	153.8	235.6	247.2	276.6	356.8	335.6	276.6	34.4
87.5°	4.9	4.9	39.3	42.6	34.4	44.2	45.8	50.7	108.0	101.5	18.0
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°	1993.5	1993.5	1993.5	1993.5	1993.5	1993.5	1993.5	1993.5	1993.5	1993.5	1993.5
2.5°	1996.8	1985.3	1944.4	1910.1	1880.6	1862.6	1841.3	1828.2	1821.7	1816.7	1818.4
5°	2004.9	1977.1	1906.8	1851.1	1808.6	1762.7	1731.6	1713.6	1705.5	1692.3	1692.3
7.5°	2050.8	2006.6	1908.4	1823.3	1749.6	1687.5	1628.5	1607.2	1592.5	1589.2	1586.0
10°	2116.3	2060.6	1926.4	1808.6	1703.8	1618.7	1535.2	1461.6	1404.3	1369.9	1365.0
12.5°	2198.1	2117.9	1954.2	1798.7	1664.5	1514.0	1293.0	1144.1	1044.2	1013.2	1018.0
15°	2273.4	2186.6	1982.1	1790.6	1592.5	1255.4	1004.9	834.7	784.0	779.1	780.7
17.5°	2363.4	2260.3	2014.8	1779.1	1394.5	959.1	746.3	700.5	710.3	726.7	725.0
20°	2456.7	2338.8	2054.1	1710.3	1113.0	721.7	659.6	664.5	679.3	694.0	697.3
22.5°	2556.6	2428.9	2099.9	1545.1	849.4	628.5	625.2	631.8	646.5	662.9	666.2
25°	2694.1	2541.8	2134.3	1329.0	643.2	581.0	587.6	599.0	612.2	630.2	633.4
27.5°	2870.8	2694.1	2152.3	1047.5	556.5	538.5	540.1	556.5	572.9	589.2	589.2
30°	3099.9	2875.7	2116.3	792.1	513.9	497.5	491.0	500.8	522.1	538.5	540.1
32.5°	3304.5	3047.5	2021.3	605.6	482.8	459.9	443.5	445.2	453.4	463.2	464.8
35°	3509.1	3214.5	1859.3	509.1	450.1	423.9	399.4	386.3	379.7	374.8	379.7
37.5°	3771.0	3422.4	1643.2	463.2	422.3	389.6	355.2	327.3	304.4	289.7	293.0
40°	4108.1	3710.4	1387.9	433.7	396.1	356.8	311.0	275.0	235.6	222.6	216.1
42.5°	4664.6	4147.4	1119.5	409.1	369.9	322.4	265.2	216.1	180.1	166.9	170.2
45°	5543.5	4699.0	862.5	383.0	343.7	284.8	222.6	170.2	140.8	134.2	137.5
47.5°	6708.8	5412.6	664.5	353.6	311.0	243.9	175.1	134.2	116.2	114.5	112.9
50°	7805.5	6077.1	554.8	320.8	271.7	202.9	144.1	112.9	101.5	99.8	99.8
52.5°	8797.3	6553.4	451.7	283.2	229.2	166.9	121.1	99.8	90.0	85.1	85.1
55°	9679.5	6864.3	366.6	237.3	180.1	132.5	104.8	90.0	78.5	72.0	70.4
57.5°	10345.6	6902.0	275.0	189.9	134.2	103.1	90.0	78.5	65.4	57.3	54.0
60°	10630.4	6576.3	202.9	144.1	99.8	81.8	72.0	63.8	49.1	41.0	39.3
62.5°	10344.0	5942.9	150.5	109.7	77.0	60.6	50.7	47.4	34.4	24.6	22.9
65°	9317.8	5028.0	119.5	83.5	57.3	44.2	32.7	31.1	21.3	11.4	9.8
67.5°	7465.1	3937.9	94.9	62.2	41.0	29.4	21.3	19.7	11.4	3.3	3.3
70°	4854.5	2517.3	77.0	45.8	26.2	19.7	13.1	9.8	6.6	1.6	0.0
72.5°	2401.1	1176.8	62.2	36.0	18.0	9.8	4.9	3.3	4.9	0.0	0.0
75°	931.3	419.0	45.8	24.6	9.8	4.9	3.3	0.0	1.6	0.0	0.0
77.5°	309.3	139.1	27.8	13.1	6.6	3.3	0.0	0.0	0.0	0.0	0.0
80°	114.5	54.0	14.7	8.2	3.3	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	45.8	21.3	9.8	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.9	13.1	6.6	4.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.4	9.8	6.6	4.9	3.3	1.6	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)