

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: P646968

Luminaire Tested: **GALN-SA5C-835-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-835-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20239.8 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

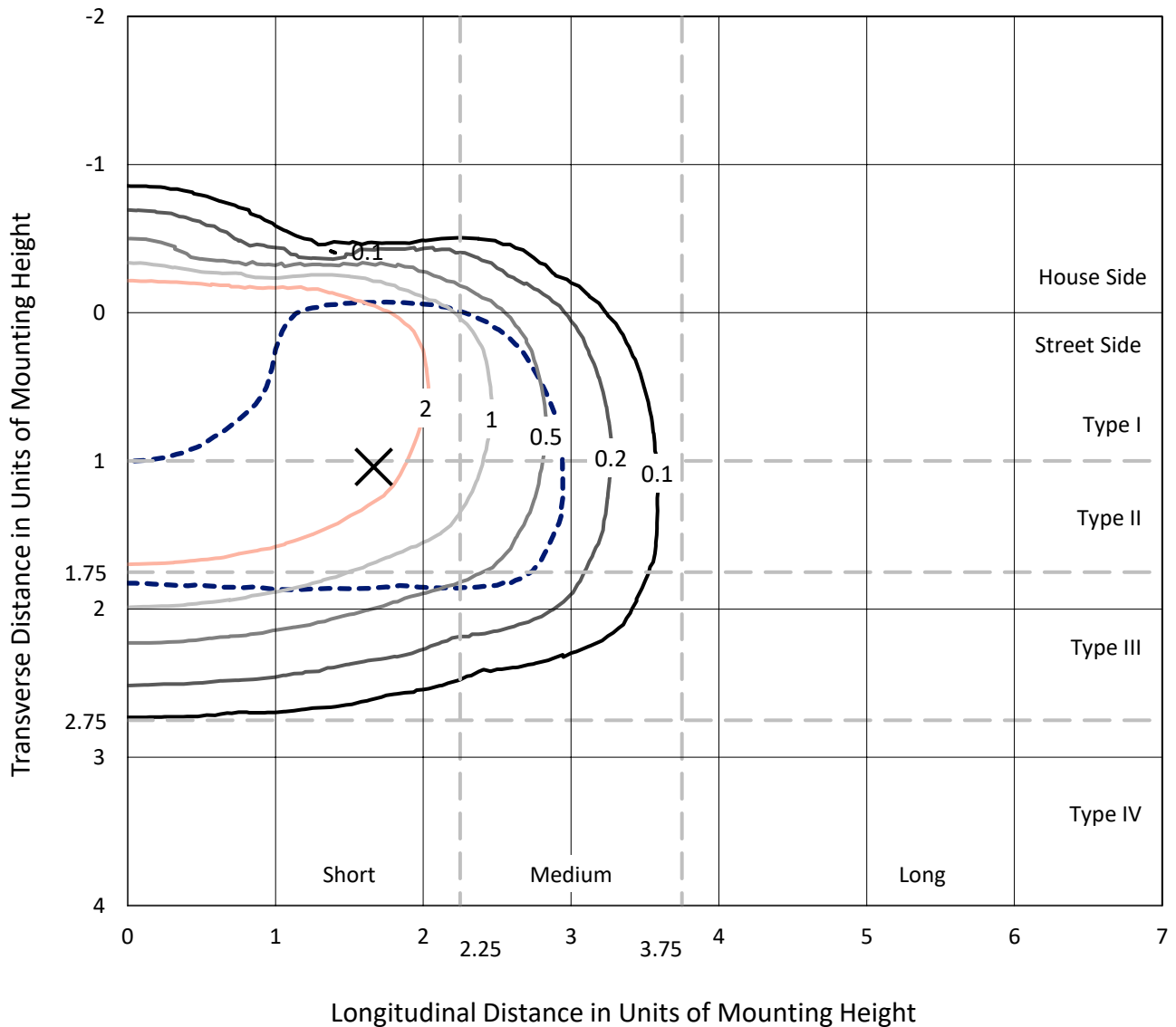
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

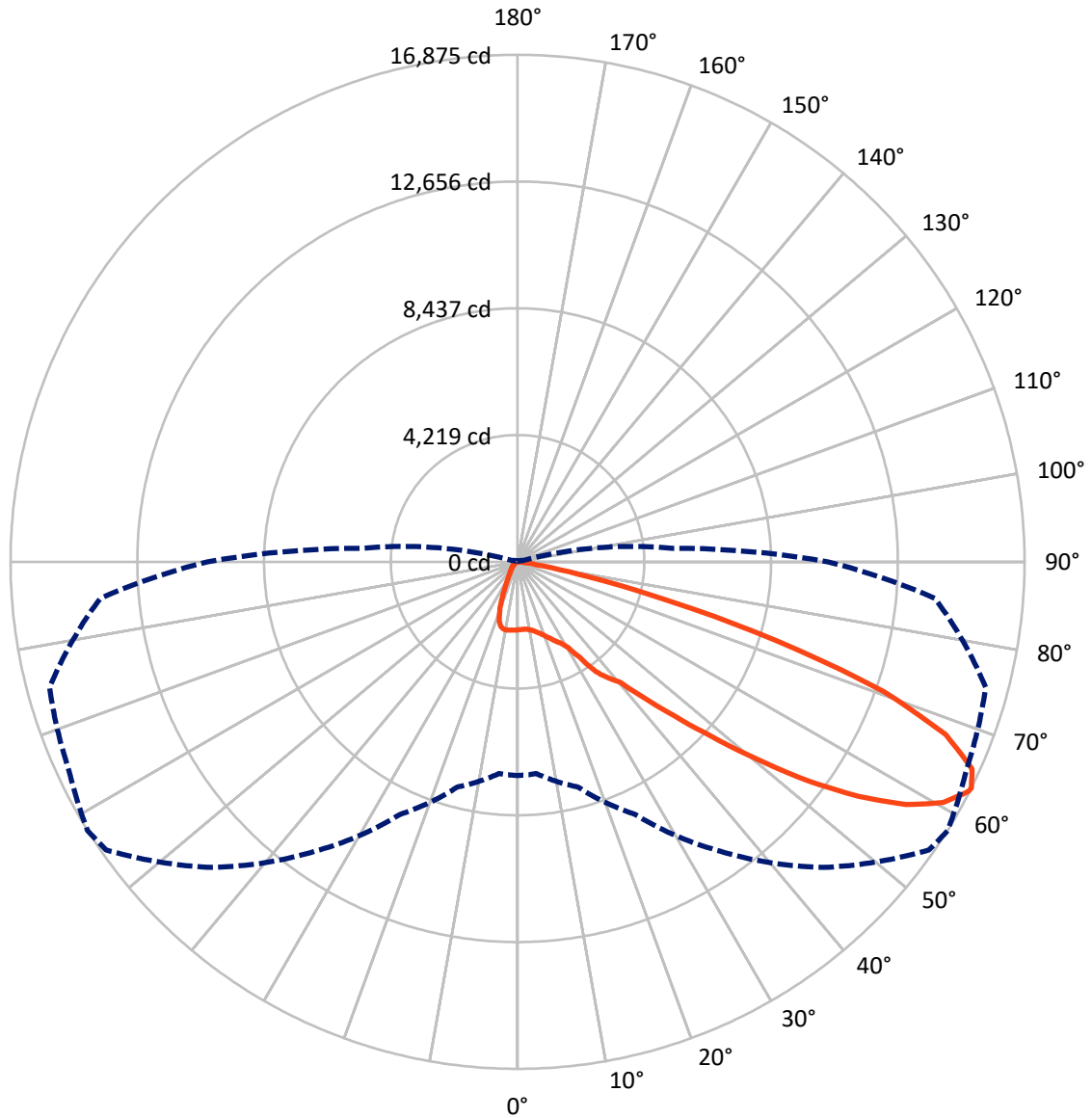
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2095.7	0.0	2095.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	18144.1	0.0	18144.1
	% Fixture	89.6	0.0	89.6
Total	Lumens	20239.8	0.0	20239.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.1	1.0
10°-20°	577.7	2.9
20°-30°	1002.7	5.0
30°-40°	1842.6	9.1
40°-50°	3468.6	17.1
50°-60°	5932.8	29.3
60°-70°	5680.6	28.1
70°-80°	1448.6	7.2
80°-90°	74.1	0.4
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°	20239.8	100.0
0°-180°	20239.8	100.0



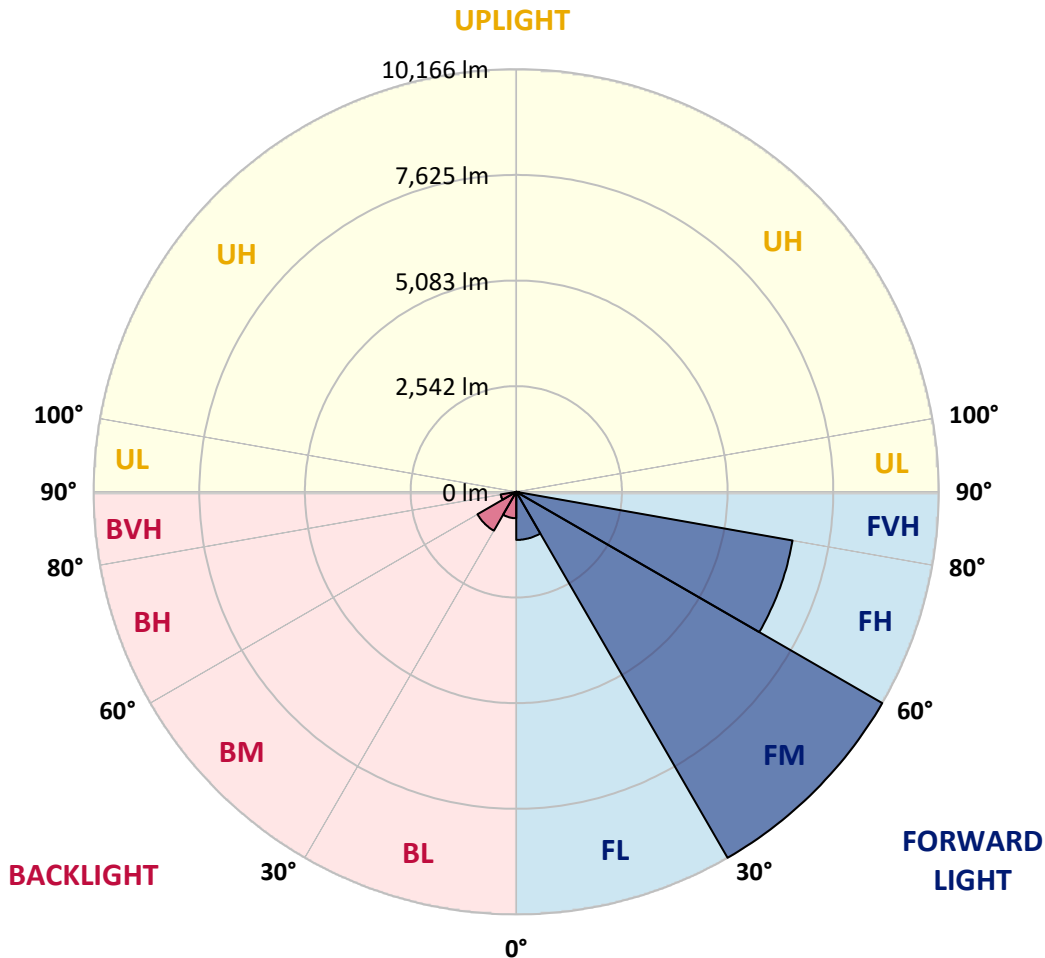
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1157.0	5.7			
FM (30°-60°)	10166.0	50.2			
FH (60°-80°)	6749.9	33.3			G3/7500
FVH (80°-90°)	71.2	0.4			G1/100
BL (0°-30°)	635.6	3.1	B2/1000		
BM (30°-60°)	1077.9	5.3	B2/2500		
BH (60°-80°)	379.4	1.9	B1/500		G1/500
BVH (80°-90°)	2.9	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9
2.5°	2209.5	2217.1	2224.8	2227.8	2238.5	2249.2	2256.8	2255.3	2267.4	2273.5	2273.5
5°	2121.1	2121.1	2141.0	2159.3	2189.7	2220.2	2249.2	2255.3	2278.1	2299.4	2307.0
7.5°	2046.5	2051.1	2066.3	2099.8	2141.0	2194.3	2252.2	2265.9	2305.5	2352.8	2372.6
10°	2011.4	2014.5	2034.3	2069.3	2121.1	2194.3	2275.1	2301.0	2361.9	2436.6	2464.0
12.5°	2003.9	2008.4	2028.2	2067.8	2127.3	2215.7	2325.4	2352.8	2441.2	2537.2	2578.3
15°	2017.6	2020.6	2040.4	2083.1	2148.6	2253.7	2392.4	2430.5	2535.7	2646.9	2700.2
17.5°	2066.3	2063.3	2077.0	2112.0	2185.2	2301.0	2473.2	2518.9	2642.3	2794.7	2829.8
20°	2273.5	2253.7	2241.6	2211.0	2240.0	2368.0	2570.7	2637.8	2790.1	2945.6	2969.9
22.5°	2720.0	2675.8	2589.0	2470.1	2378.7	2459.5	2688.0	2765.7	2962.3	3114.7	3114.7
25°	3288.4	3232.0	3145.2	2886.1	2662.1	2610.3	2820.6	2918.1	3149.8	3303.6	3253.4
27.5°	4000.0	3955.9	3786.7	3485.0	3142.1	2873.9	2974.5	3064.4	3315.8	3501.7	3396.6
30°	4579.1	4557.8	4419.1	4149.4	3771.5	3379.8	3261.0	3320.4	3536.8	3751.7	3643.5
32.5°	5068.2	5068.2	4926.5	4675.1	4321.5	3974.1	3747.0	3789.7	3997.0	4245.3	4044.2
35°	5606.1	5587.9	5473.6	5234.4	4838.2	4531.8	4438.9	4496.8	4684.2	4868.6	4373.4
37.5°	6171.4	6165.3	6046.5	5814.9	5491.9	5106.3	4888.4	4903.6	4999.7	5112.4	4758.9
40°	6785.6	6794.7	6639.3	6496.1	6191.3	5796.6	5379.1	5283.1	5373.0	5691.5	5470.5
42.5°	7510.9	7489.6	7422.5	7227.5	6982.2	6745.9	6244.6	6209.6	6288.8	6630.1	6390.9
45°	8353.6	8384.1	8268.2	8160.0	7995.4	7798.9	7379.9	7318.9	7405.8	7936.0	7596.3
47.5°	9197.7	9168.9	9243.5	9223.7	9312.1	9165.8	8795.5	8670.6	8879.3	9382.1	8882.4
50°	9840.8	9872.8	10028.3	10255.3	10634.7	10717.0	10362.0	10319.3	10412.3	10735.3	10032.8
52.5°	10258.3	10365.0	10608.9	11192.4	11876.6	12408.4	12138.8	12115.9	12077.8	12164.7	11133.0
55°	10531.1	10639.3	10957.8	11817.2	12995.1	13859.2	13872.9	13775.3	13523.9	13461.4	12161.6
57.5°	10363.5	10384.9	10838.9	11987.9	13615.4	14893.8	15341.8	15244.3	14779.5	14543.4	13069.8
60°	9315.1	9359.3	9991.7	11341.8	13345.6	15232.1	16315.5	16271.4	15762.4	15495.7	13776.9
62.5°	7457.6	7585.5	8236.2	9741.8	12091.5	14662.2	16710.2	16835.1	16439.0	16071.7	13999.3
63°	7116.2	7075.1	7762.3	9275.5	11759.3	14380.3	16716.3	16874.7	16469.5	16126.6	13938.4
65°	5267.9	5391.3	5837.7	7314.3	9785.9	13068.3	16340.0	16620.3	16356.7	15884.3	13263.3
67.5°	2957.7	2951.7	3445.4	4786.3	6849.6	10250.7	14775.0	15367.7	15312.9	14253.8	10994.3
70°	1447.6	1470.5	1673.2	2480.8	3972.6	7072.1	12277.4	12917.4	12937.2	11195.5	7602.3
72.5°	655.2	665.9	810.6	1208.4	2041.9	3765.4	8460.2	9071.3	8958.5	7134.5	4198.1
75°	345.9	368.8	446.5	608.0	984.4	1552.8	4601.9	5193.2	4957.0	3259.5	1545.2
77.5°	256.0	263.6	303.3	387.0	527.3	604.9	1985.5	2361.9	2212.6	1179.4	512.0
80°	187.5	193.6	225.5	274.3	332.2	307.8	748.2	857.9	769.5	400.7	157.0
82.5°	114.3	115.8	164.6	204.2	208.7	172.2	246.9	265.1	277.3	225.5	85.3
85°	41.1	51.8	111.3	147.8	123.4	86.8	103.6	114.3	125.0	143.2	50.3
87.5°	4.5	6.1	53.3	71.6	35.1	32.0	38.1	42.7	45.7	53.3	24.4
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°	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9	2265.9
2.5°	2279.6	2285.7	2281.2	2273.5	2272.0	2267.4	2258.3	2258.3	2258.3	2261.4	2258.3
5°	2313.1	2317.8	2307.0	2291.8	2275.1	2253.7	2230.8	2217.1	2215.7	2212.6	2205.0
7.5°	2377.2	2383.2	2358.9	2322.3	2276.6	2224.8	2176.0	2130.3	2108.9	2092.2	2092.2
10°	2470.1	2476.2	2427.5	2361.9	2270.5	2165.4	2049.5	1944.4	1862.1	1824.0	1814.8
12.5°	2581.3	2584.4	2503.6	2389.3	2238.5	2035.8	1789.0	1558.9	1398.8	1325.7	1318.1
15°	2703.2	2681.9	2575.3	2400.1	2147.1	1769.2	1342.5	1060.6	894.5	845.7	864.0
17.5°	2826.7	2787.1	2630.1	2383.2	1941.4	1342.5	902.1	723.8	672.0	658.3	658.3
20°	2942.5	2887.6	2669.7	2310.1	1584.8	925.0	669.0	626.3	617.2	608.0	609.6
22.5°	3058.3	2974.5	2704.8	2147.1	1181.0	661.3	598.8	585.1	572.9	560.8	559.2
25°	3171.1	3055.3	2718.5	1845.4	804.6	568.4	547.1	528.8	504.4	490.7	487.7
27.5°	3288.4	3152.7	2709.3	1464.4	586.7	509.0	487.7	461.7	432.8	408.4	408.4
30°	3513.9	3338.7	2677.4	1053.0	493.7	448.0	420.5	379.4	347.4	323.1	321.5
32.5°	3821.7	3581.0	2567.6	740.6	438.9	394.6	353.5	307.8	274.3	256.0	256.0
35°	4096.0	3824.8	2361.9	545.5	394.6	342.9	292.6	248.4	222.5	210.3	205.7
37.5°	4513.5	4181.4	2078.5	443.4	352.0	297.1	245.3	204.2	182.8	173.7	173.7
40°	5139.8	4617.2	1731.1	388.6	310.9	253.0	204.2	172.2	155.4	144.8	144.8
42.5°	5917.0	5150.5	1379.0	349.0	272.8	217.9	170.7	146.3	131.1	123.4	121.9
45°	6895.3	5712.8	1062.1	312.4	242.3	185.9	144.8	123.4	108.2	103.6	105.2
47.5°	7916.2	6208.0	822.9	280.4	210.3	157.0	123.4	106.6	96.0	89.9	89.9
50°	8787.8	6549.4	624.8	243.8	185.9	132.6	108.2	96.0	86.8	83.8	82.3
52.5°	9516.3	6648.5	478.5	211.8	163.0	114.3	96.0	86.8	79.2	74.7	74.7
55°	10136.5	6561.5	374.8	178.3	137.2	99.0	85.3	77.8	68.6	64.0	62.5
57.5°	10499.1	6282.7	286.5	147.8	111.3	82.3	74.7	65.5	54.9	47.2	47.2
60°	10682.0	5877.4	219.4	121.9	85.3	65.5	60.9	48.8	38.1	32.0	30.5
62.5°	10462.5	5339.4	166.1	96.0	64.0	48.8	41.1	35.1	24.4	18.3	18.3
63°	10326.9	5184.0	160.0	91.5	59.4	45.7	38.1	32.0	21.3	16.8	15.3
65°	9414.2	4505.9	131.1	73.1	47.2	32.0	25.9	22.9	15.3	7.6	6.1
67.5°	7475.8	3446.8	103.6	54.9	33.5	22.9	15.3	13.7	4.5	0.0	0.0
70°	5054.5	2226.3	80.7	39.6	22.9	13.7	7.6	6.1	1.5	0.0	0.0
72.5°	2636.2	1141.4	62.5	29.0	13.7	9.2	4.5	1.5	0.0	0.0	0.0
75°	932.6	388.6	45.7	18.3	9.2	4.5	1.5	0.0	0.0	0.0	0.0
77.5°	281.9	144.8	29.0	13.7	6.1	3.1	0.0	0.0	0.0	0.0	0.0
80°	99.0	53.3	16.8	9.2	4.5	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	48.8	25.9	10.6	7.6	4.5	1.5	0.0	0.0	0.0	0.0	0.0
85°	27.4	16.8	9.2	7.6	4.5	3.1	0.0	0.0	0.0	0.0	0.0
87.5°	19.8	12.2	9.2	7.6	6.1	3.1	1.5	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)