

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: P527945

Luminaire Tested: **GALN-SA3A-730-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-730-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7257 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

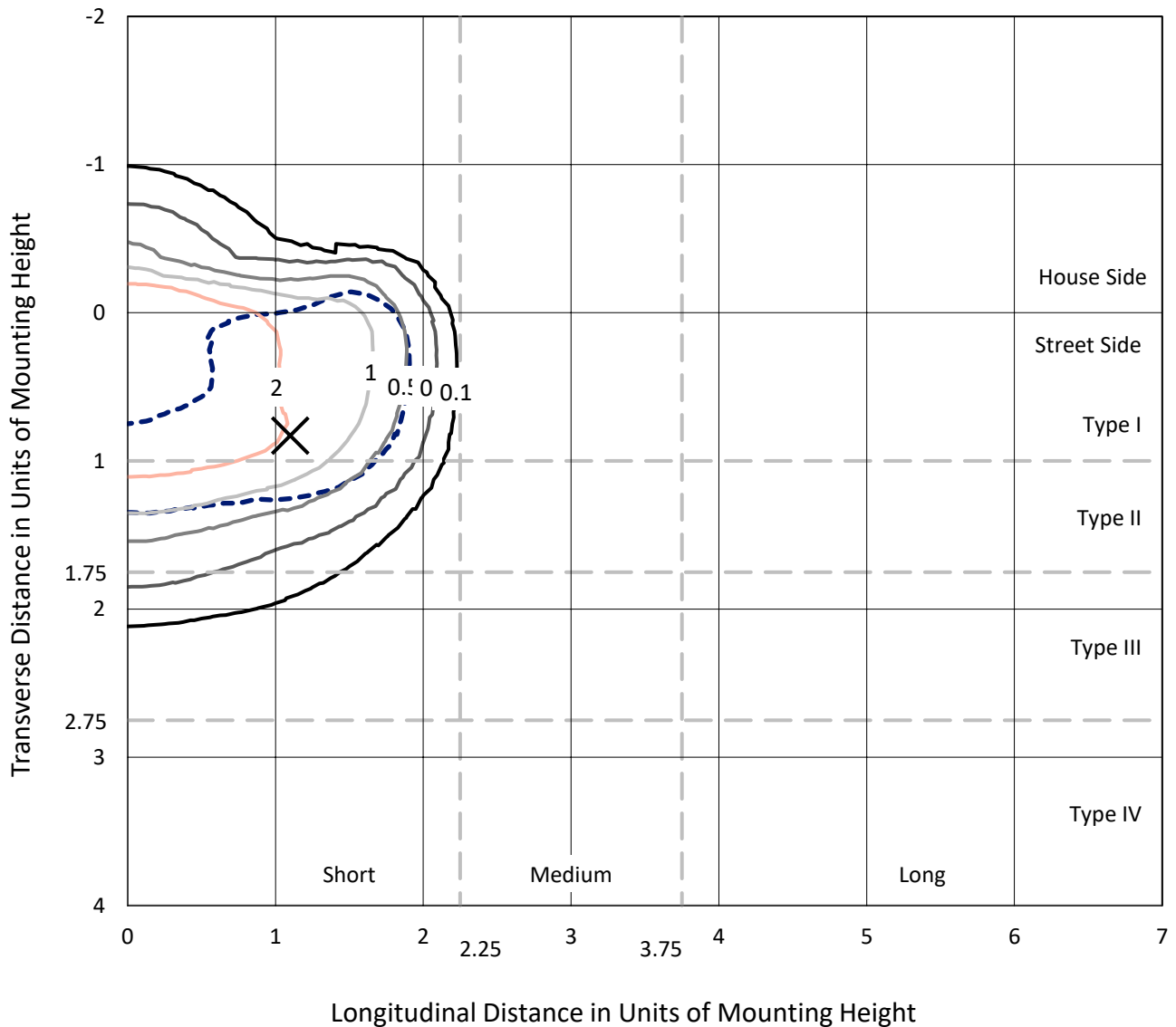
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

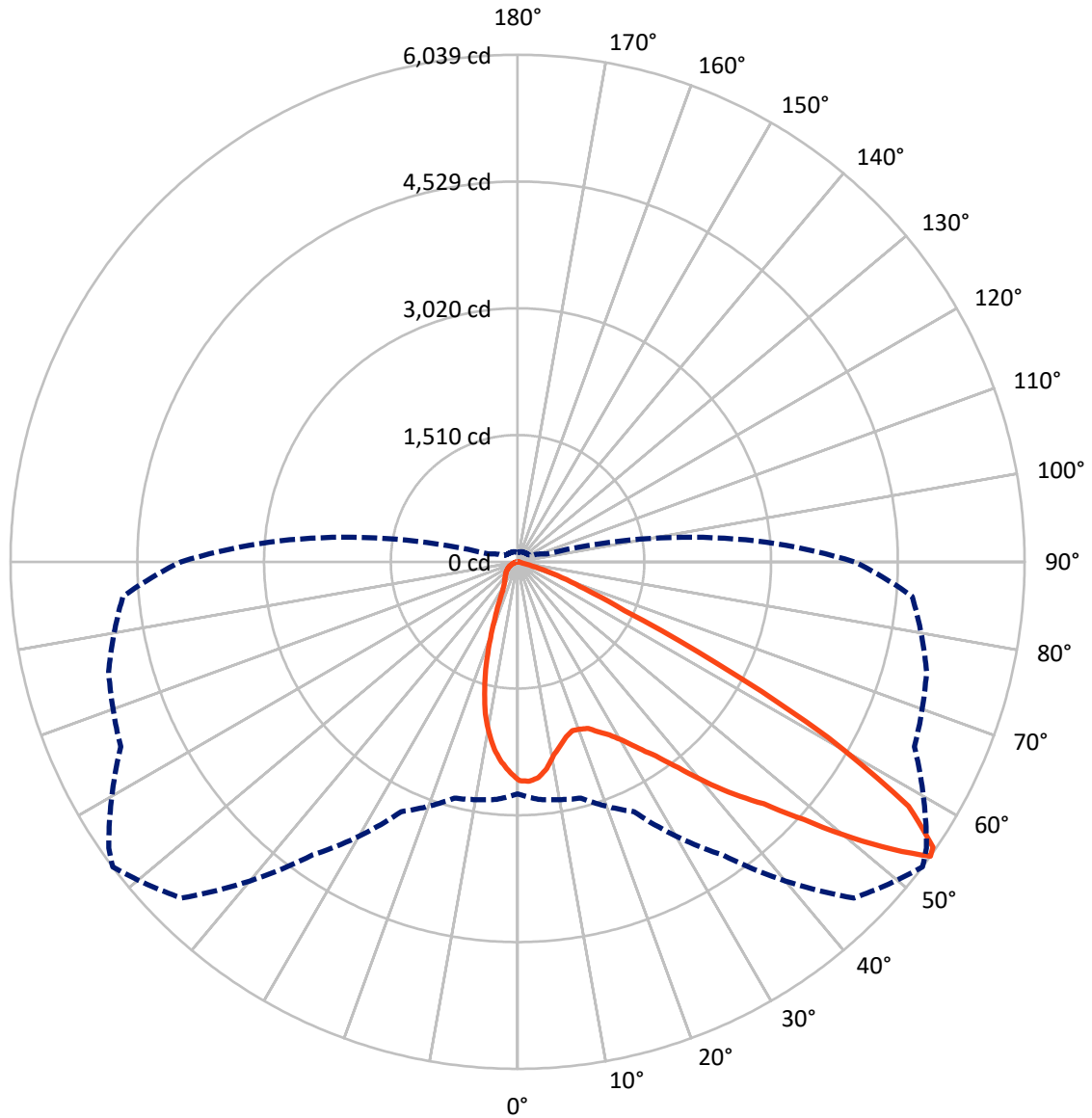
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1200.7	0.0	1200.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	6056.3	0.0	6056.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	7257.0	0.0	7257.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.6	3.1
10°-20°	512.7	7.1
20°-30°	728.7	10.0
30°-40°	1124.6	15.5
40°-50°	1763.2	24.3
50°-60°	2048.3	28.2
60°-70°	774.0	10.7
70°-80°	73.6	1.0
80°-90°	8.3	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°	7257.0	100.0
0°-180°	7257.0	100.0



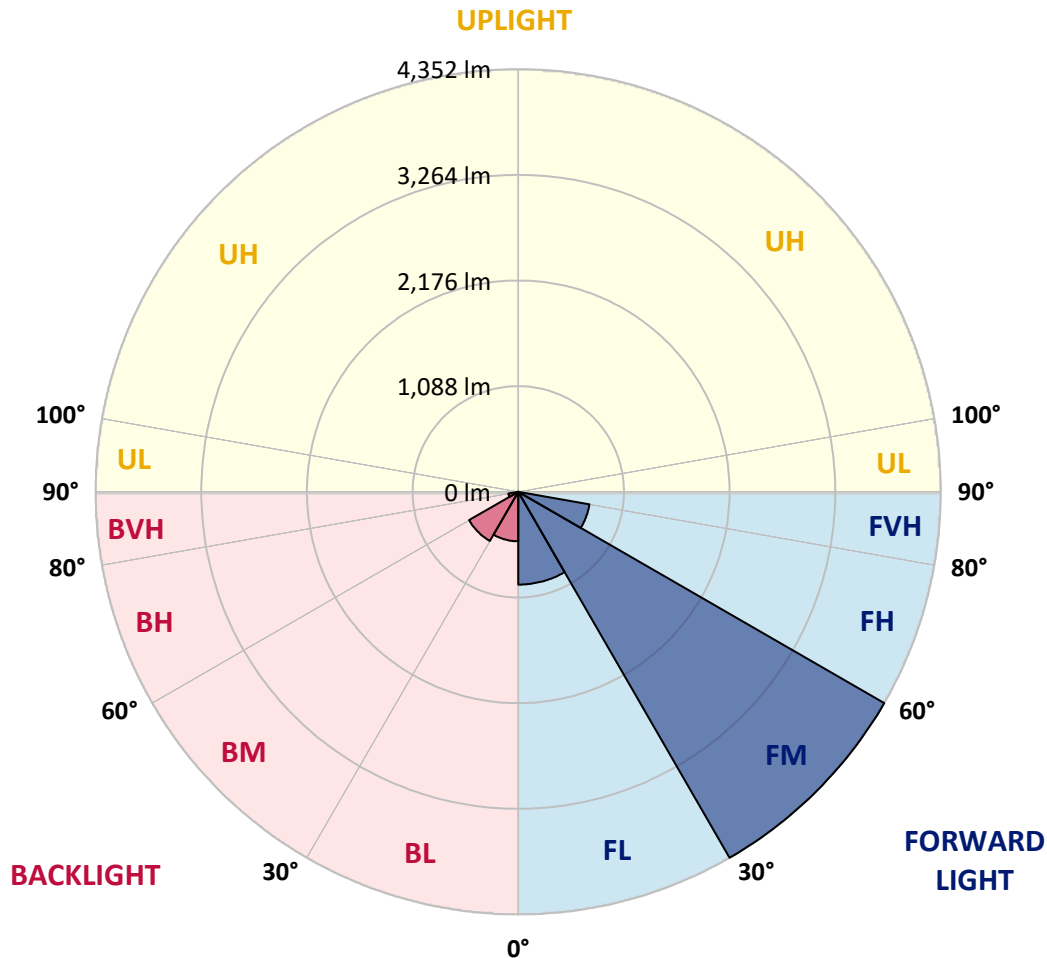
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	955.6	13.2			
FM (30°-60°)	4351.8	60.0			
FH (60°-80°)	744.7	10.3			G1/1800
FVH (80°-90°)	4.3	0.1			G0/10
BL (0°-30°)	509.5	7.0	B2/1000		
BM (30°-60°)	584.3	8.1	B1/1000		
BH (60°-80°)	102.9	1.4	B0/110		G0/110
BVH (80°-90°)	4.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2606.6	2606.6	2606.6	2606.6	2606.6	2606.6	2606.6	2606.6	2606.6	2606.6	2606.6
2.5°	2593.1	2570.1	2593.1	2595.8	2612.0	2626.9	2617.4	2639.0	2626.9	2613.4	2609.3
5°	2383.5	2414.6	2416.0	2464.6	2453.8	2543.0	2582.3	2571.4	2637.7	2633.6	2624.2
7.5°	2195.6	2183.4	2199.7	2256.4	2328.1	2430.8	2487.6	2486.3	2580.9	2648.5	2641.7
10°	2021.2	2019.8	2053.6	2098.3	2159.1	2267.2	2345.7	2384.9	2532.2	2635.0	2649.9
12.5°	1903.6	1898.2	1934.7	1971.2	2067.2	2151.0	2251.0	2270.0	2438.9	2587.7	2612.0
15°	1826.5	1838.7	1841.4	1911.7	1972.5	2083.4	2161.8	2201.0	2395.7	2549.8	2643.1
17.5°	1813.0	1829.2	1830.6	1888.7	1953.6	2046.9	2115.8	2168.6	2359.2	2568.7	2644.4
20°	1840.0	1830.6	1838.7	1875.2	1938.7	2028.0	2128.0	2145.6	2347.0	2578.2	2659.3
22.5°	1917.1	1914.4	1894.1	1923.8	1968.5	2061.7	2156.4	2183.4	2382.2	2626.9	2671.5
25°	2002.3	2017.1	1998.2	1994.2	2025.2	2117.2	2242.9	2278.1	2499.8	2714.7	2709.3
27.5°	2161.8	2146.9	2146.9	2128.0	2119.9	2164.5	2336.2	2394.3	2630.9	2828.3	2752.6
30°	2314.6	2330.8	2318.6	2325.4	2271.3	2267.2	2468.7	2540.3	2863.5	3001.4	2844.5
32.5°	2556.6	2534.9	2555.2	2537.6	2466.0	2393.0	2648.5	2722.9	3144.7	3200.1	2982.4
35°	2758.0	2748.5	2835.1	2832.4	2716.1	2644.4	2839.1	2950.0	3340.7	3438.1	3144.7
37.5°	3044.6	3027.1	3125.7	3173.1	3069.0	2962.2	3112.2	3240.7	3523.2	3628.7	3311.0
40°	3339.4	3384.0	3516.5	3594.9	3484.0	3342.1	3446.2	3485.4	3644.9	3753.1	3424.5
42.5°	3712.5	3777.4	3912.6	3980.2	3970.7	3816.6	3785.5	3784.2	3732.8	3717.9	3508.4
45°	4070.8	4046.4	4254.6	4402.0	4521.0	4476.4	4112.7	4072.1	3872.0	3770.6	3530.0
47.5°	4227.6	4219.5	4361.4	4623.7	5029.3	5084.7	4588.6	4431.7	4107.3	3992.4	3647.6
50°	4024.8	4066.7	4207.3	4498.0	5119.9	5543.1	5172.6	4961.7	4381.7	4262.8	3926.1
52.5°	3362.3	3390.7	3524.6	3893.7	4811.6	5813.5	5732.3	5610.7	4886.0	4688.6	4411.5
54°	2764.8	2840.5	2913.5	3283.9	4262.8	5663.4	6039.2	5946.0	5214.5	5042.8	4717.0
55°	2407.9	2452.5	2505.2	2874.3	3882.8	5409.2	6004.1	6012.2	5434.9	5153.7	4922.5
57.5°	1758.9	1790.0	1735.9	1899.5	2666.1	4392.5	5491.7	5710.7	5732.3	5320.0	5048.2
60°	1343.9	1357.4	1296.5	1322.2	1657.5	3014.9	4247.9	4511.5	5171.3	4649.4	4276.3
62.5°	1042.4	1045.1	1043.7	1088.3	1142.4	1773.8	2656.6	2890.5	3565.1	3301.5	2904.0
65°	767.9	755.7	777.4	912.6	974.8	1115.4	1399.3	1569.6	1937.4	1635.9	1169.5
67.5°	497.5	501.6	523.2	678.7	835.5	855.8	861.2	847.7	849.0	467.8	293.4
70°	298.8	305.5	298.8	384.0	597.6	613.8	561.1	547.5	427.2	110.9	109.5
72.5°	177.1	167.6	150.1	164.9	248.8	297.4	267.7	266.3	167.6	64.9	64.9
75°	74.4	67.6	55.4	50.0	66.2	63.5	63.5	56.8	44.6	43.3	40.6
77.5°	14.9	14.9	10.8	12.2	16.2	18.9	23.0	23.0	27.0	27.0	25.7
80°	0.0	1.4	4.1	8.1	12.2	17.6	20.3	20.3	23.0	23.0	18.9
82.5°	0.0	1.4	4.1	8.1	10.8	16.2	20.3	20.3	23.0	24.3	20.3
85°	0.0	1.4	4.1	6.8	10.8	13.5	13.5	12.2	9.5	8.1	5.4
87.5°	0.0	0.0	1.4	2.7	1.4	2.7	2.7	2.7	2.7	2.7	2.7
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°	2606.6	2606.6	2606.6	2606.6	2606.6	2606.6	2606.6	2606.6	2606.6	2606.6	2606.6
2.5°	2618.8	2617.4	2585.0	2532.2	2520.1	2475.5	2470.0	2443.0	2457.9	2407.9	2402.4
5°	2597.1	2580.9	2541.7	2507.9	2409.2	2338.9	2283.5	2215.9	2176.7	2183.4	2157.7
7.5°	2628.2	2586.3	2517.4	2399.7	2279.4	2156.4	2090.1	1952.2	1902.2	1827.9	1817.0
10°	2595.8	2564.7	2457.9	2263.2	2096.9	1919.8	1764.3	1611.5	1495.3	1445.3	1434.4
12.5°	2593.1	2539.0	2360.5	2144.2	1903.6	1649.4	1423.6	1233.0	1118.1	1053.2	1038.3
15°	2551.2	2486.3	2251.0	1960.4	1627.8	1311.4	1065.3	881.5	793.6	755.7	766.6
17.5°	2555.2	2457.9	2141.5	1765.7	1356.0	962.6	727.4	632.7	609.7	619.2	619.2
20°	2551.2	2394.3	2009.0	1541.2	1038.3	667.9	534.0	500.2	515.1	544.8	538.1
22.5°	2529.5	2364.6	1887.3	1304.6	763.9	494.8	428.6	429.9	452.9	489.4	497.5
25°	2545.8	2298.3	1733.2	1065.3	557.0	394.8	371.8	381.3	405.6	432.6	438.0
27.5°	2533.6	2251.0	1572.3	827.4	406.9	339.3	338.0	348.8	359.6	379.9	379.9
30°	2547.1	2207.8	1414.2	615.1	335.3	311.0	305.5	313.7	324.5	328.5	327.2
32.5°	2597.1	2175.3	1231.6	459.7	296.1	283.9	283.9	283.9	282.6	288.0	289.3
35°	2706.6	2180.7	1070.8	355.6	270.4	260.9	256.9	251.5	248.8	251.5	252.8
37.5°	2825.6	2178.0	904.5	302.8	251.5	243.4	233.9	225.8	224.4	227.1	223.1
40°	2878.3	2203.7	750.3	271.7	233.9	224.4	209.6	202.8	204.1	206.9	204.1
42.5°	2950.0	2211.8	650.3	247.4	217.7	202.8	193.3	185.2	183.9	187.9	186.6
45°	2948.6	2165.9	544.8	233.9	202.8	186.6	174.4	167.6	167.6	170.3	171.7
47.5°	3035.2	2159.1	467.8	221.7	192.0	175.8	160.9	155.5	154.1	154.1	151.4
50°	3236.6	2253.7	408.3	208.2	178.5	163.6	151.4	144.7	139.3	136.5	135.2
52.5°	3630.0	2548.5	362.3	192.0	163.6	151.4	140.6	135.2	128.4	121.7	120.3
54°	4011.3	2852.7	359.6	178.5	151.4	143.3	133.8	131.1	123.0	113.6	110.9
55°	4183.0	3029.8	369.1	167.6	143.3	137.9	129.8	127.1	119.0	108.2	106.8
57.5°	4324.9	3098.7	363.7	139.3	129.8	128.4	121.7	117.6	108.2	93.3	90.6
60°	3481.3	2343.0	260.9	123.0	119.0	116.3	110.9	108.2	96.0	79.8	78.4
62.5°	2199.7	1347.9	166.3	108.2	104.1	100.0	93.3	90.6	79.8	63.5	59.5
65°	936.9	558.4	112.2	96.0	89.2	82.5	77.1	73.0	63.5	47.3	46.0
67.5°	243.4	198.7	93.3	83.8	74.4	64.9	60.8	54.1	43.3	32.4	31.1
70°	109.5	100.0	78.4	70.3	59.5	50.0	44.6	37.9	28.4	21.6	20.3
72.5°	64.9	63.5	59.5	52.7	44.6	37.9	32.4	25.7	18.9	12.2	12.2
75°	40.6	39.2	40.6	36.5	31.1	28.4	24.3	17.6	10.8	5.4	5.4
77.5°	24.3	24.3	24.3	23.0	21.6	21.6	17.6	10.8	5.4	1.4	1.4
80°	18.9	18.9	20.3	18.9	18.9	18.9	14.9	8.1	2.7	0.0	0.0
82.5°	18.9	20.3	23.0	21.6	18.9	16.2	13.5	8.1	2.7	0.0	0.0
85°	5.4	4.1	6.8	9.5	13.5	12.2	9.5	6.8	2.7	0.0	0.0
87.5°	2.7	2.7	2.7	2.7	1.4	1.4	1.4	1.4	1.4	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)