

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: P456848

Luminaire Tested: **GALN-SA8A-827-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20294 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

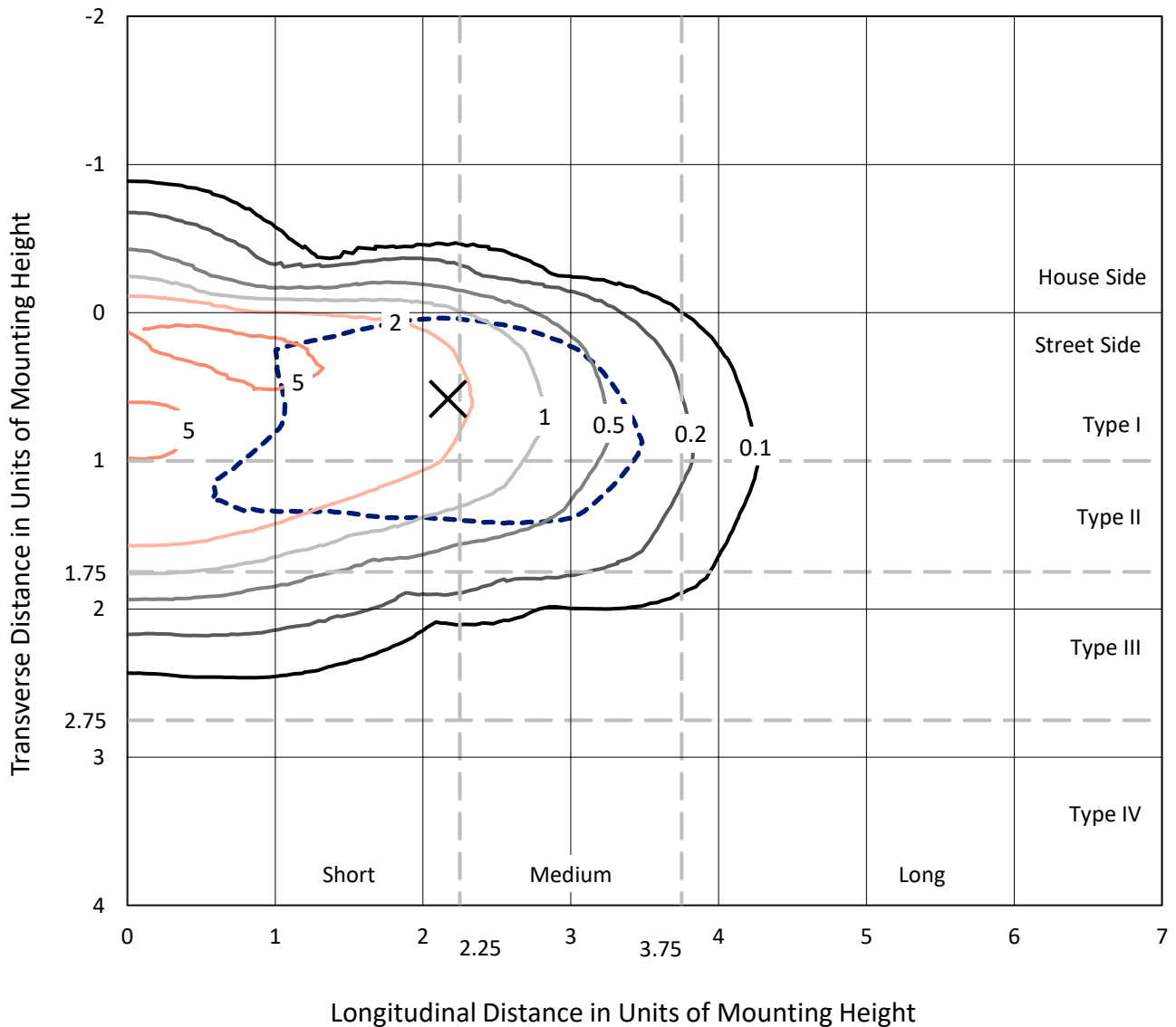
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

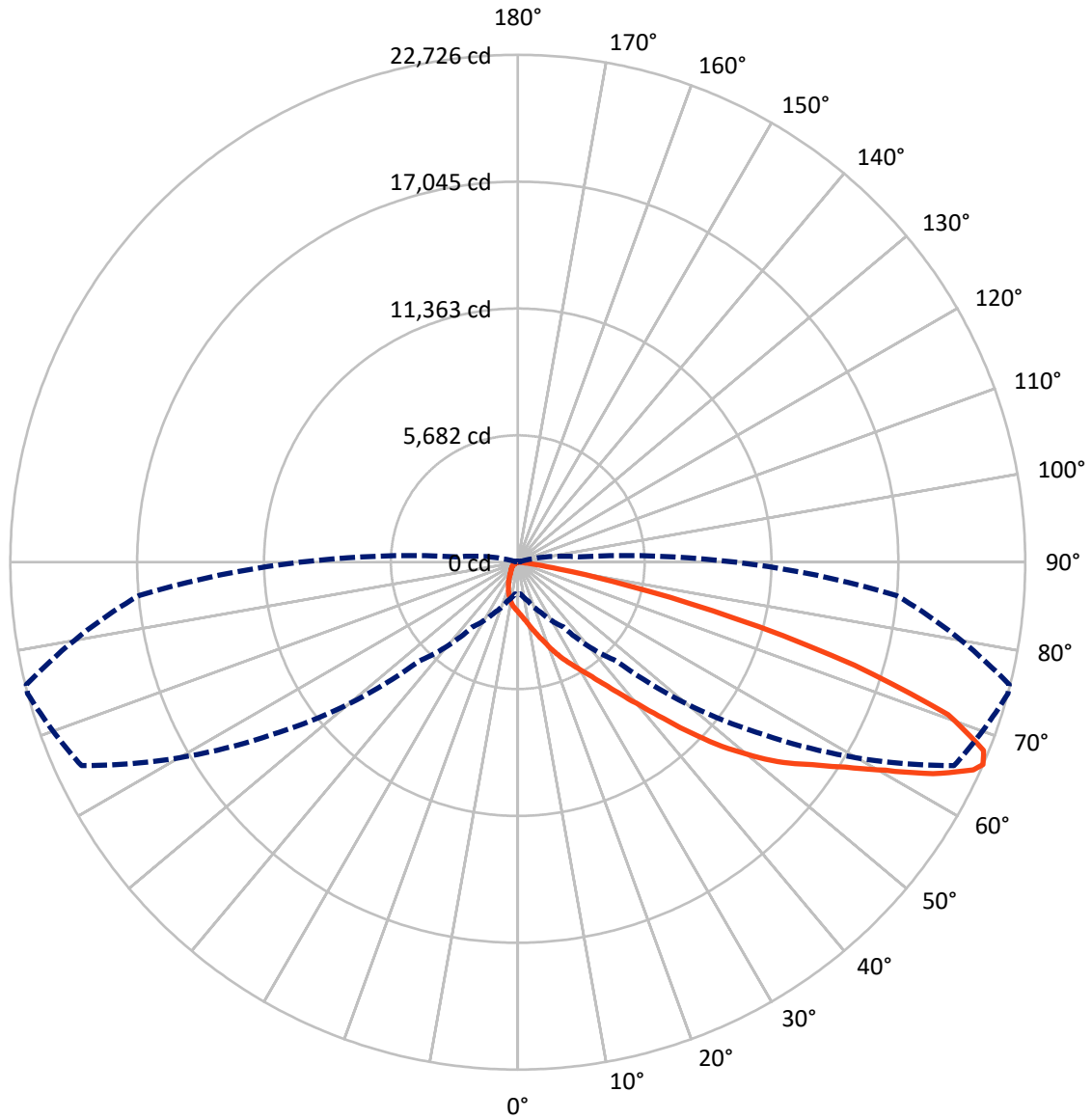
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1252.8	0.0	1252.8
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	19041.1	0.0	19041.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	20294.0	0.0	20294.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.1	1.1
10°-20°	630.0	3.1
20°-30°	1087.8	5.4
30°-40°	1962.3	9.7
40°-50°	3544.9	17.5
50°-60°	5526.5	27.2
60°-70°	5249.9	25.9
70°-80°	1967.5	9.7
80°-90°	111.0	0.5
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°	20294.0	100.0
0°-180°	20294.0	100.0

Coefficient of Utilization



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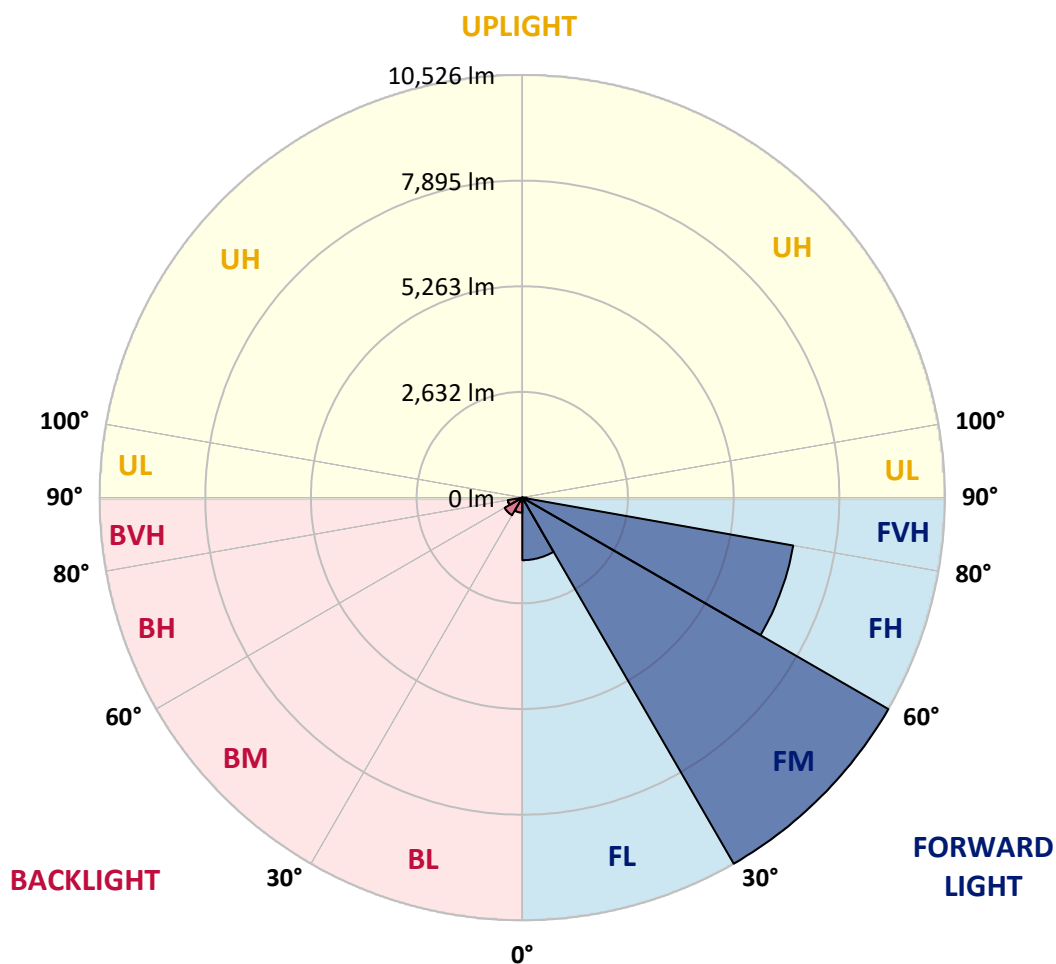
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1557.7	7.7			
FM (30°-60°)	10526.5	51.9			
FH (60°-80°)	6851.6	33.8			G3/7500
FVH (80°-90°)	105.3	0.5			G2/225
BL (0°-30°)	374.2	1.8	B1/500		
BM (30°-60°)	507.1	2.5	B1/1000		
BH (60°-80°)	365.8	1.8	B1/500		G1/500
BVH (80°-90°)	5.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3
2.5°	2651.5	2618.5	2629.0	2614.0	2579.5	2528.5	2483.5	2418.9	2354.4	2343.9	2271.9
5°	3001.1	2992.1	2980.1	2936.6	2912.6	2834.6	2741.5	2630.5	2497.0	2472.9	2342.4
7.5°	3239.7	3235.2	3241.2	3218.7	3197.7	3127.2	3028.2	2876.6	2669.5	2656.0	2438.4
10°	3317.8	3329.8	3352.3	3388.3	3421.3	3398.8	3323.8	3134.7	2893.1	2854.1	2548.0
12.5°	3272.8	3286.3	3340.3	3436.3	3542.9	3604.4	3574.4	3436.3	3130.2	3098.7	2671.0
15°	3157.2	3173.7	3250.2	3398.8	3589.4	3763.4	3838.5	3739.4	3406.3	3355.3	2819.6
17.5°	2986.1	3010.2	3119.7	3316.3	3577.4	3877.5	4089.1	4056.1	3700.4	3652.4	2981.6
20°	2857.1	2875.1	2968.1	3193.2	3526.3	3940.5	4327.7	4420.7	4063.6	3981.0	3172.2
22.5°	2942.6	2948.6	2980.1	3115.2	3434.8	3957.0	4537.7	4800.3	4449.2	4375.7	3370.3
25°	3361.3	3301.3	3269.8	3239.7	3415.3	3942.0	4728.3	5196.5	4833.4	4755.3	3566.9
27.5°	4021.5	3994.5	3835.5	3622.4	3581.9	3961.5	4854.4	5571.6	5195.0	5111.0	3758.9
30°	4740.3	4693.8	4596.3	4284.1	3970.5	4099.6	4945.9	5936.3	5622.7	5511.6	3934.5
32.5°	5400.6	5430.6	5285.0	4963.9	4600.8	4393.7	5064.4	6333.9	6113.3	5975.3	4138.6
35°	6170.4	6230.4	6006.8	5699.2	5274.5	4924.9	5295.5	6782.6	6736.1	6562.0	4453.7
37.5°	6952.2	6988.2	6851.6	6419.5	6036.8	5600.1	5730.7	7336.3	7502.9	7354.3	4830.3
40°	7609.4	7658.9	7558.4	7174.2	6766.1	6381.9	6362.4	7939.5	8415.2	8262.2	5391.6
42.5°	8112.1	8149.6	8152.6	7881.0	7513.4	7339.3	7168.2	8709.3	9558.7	9381.6	6042.8
45°	8746.8	8800.9	8769.4	8584.8	8310.2	8278.7	8190.1	9639.7	10927.2	10703.6	6887.6
47.5°	9728.2	9764.2	9686.2	9468.6	9189.5	9239.0	9186.5	10682.6	12322.7	12130.6	7762.5
50°	10409.5	10469.5	10580.5	10667.6	10465.0	10281.9	10125.9	11656.5	13647.7	13475.2	8656.8
52.5°	10402.0	10501.0	10852.2	11290.3	11733.0	11677.5	11228.8	12732.4	14912.7	14699.6	9497.1
55°	9701.2	9893.3	10409.5	11186.8	12412.8	13023.5	12819.4	13977.9	16005.1	15861.1	10471.0
57.5°	8254.7	8371.7	9089.0	10175.4	12033.1	13656.7	14662.1	15666.0	17315.1	17247.6	11983.6
60°	5552.1	5604.6	6527.5	7870.5	10244.4	13025.0	16012.6	17708.3	18928.2	18895.2	13749.8
62.5°	3181.2	3203.7	3873.0	5005.9	7289.8	11038.2	16126.7	20227.7	20862.5	20880.5	15793.5
65°	1712.2	1724.2	2264.4	2938.1	4435.7	7867.5	14501.6	21608.3	22426.1	22460.6	17060.0
66°	1478.1	1421.0	1802.2	2504.5	3529.4	6261.9	13473.7	21558.8	22726.2	22688.7	17015.0
67.5°	1123.9	1174.9	1439.1	1925.2	2615.5	4452.2	11123.8	20599.9	22498.1	22381.1	16323.2
70°	804.3	825.3	1024.9	1373.0	1781.2	2442.9	7108.2	17109.5	20448.3	20290.8	14220.9
72.5°	519.2	541.7	726.3	993.4	1287.5	1334.0	3979.5	12361.7	15765.0	15742.5	10709.6
75°	370.6	391.6	480.2	711.3	967.9	825.3	1916.2	8331.2	10022.3	9954.8	6625.0
77.5°	268.6	279.1	321.1	465.2	691.8	591.2	888.3	4449.2	4989.4	5225.0	2927.6
80°	154.6	163.6	223.6	283.6	468.2	403.7	424.7	1785.7	1841.2	1752.7	915.4
82.5°	76.5	87.0	133.6	193.6	292.6	271.6	195.1	537.2	567.2	552.2	231.1
85°	18.0	22.5	75.0	127.5	142.6	121.5	94.5	157.6	195.1	190.6	88.5
87.5°	1.5	3.0	27.0	22.5	24.0	40.5	33.0	40.5	63.0	58.5	31.5
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°	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3	2219.3
2.5°	2238.9	2210.3	2127.8	2046.8	1979.3	1908.7	1844.2	1806.7	1791.7	1775.2	1782.7
5°	2270.4	2201.3	2034.8	1890.7	1749.7	1629.6	1533.6	1472.1	1442.1	1437.6	1430.0
7.5°	2312.4	2193.8	1935.7	1710.7	1526.1	1392.5	1283.0	1194.5	1167.4	1143.4	1123.9
10°	2363.4	2180.3	1812.7	1521.6	1325.0	1156.9	1012.9	907.8	853.8	838.8	849.3
12.5°	2417.4	2154.8	1683.6	1347.5	1120.9	906.3	772.8	720.3	705.3	699.3	700.8
15°	2471.4	2123.3	1548.6	1179.5	892.8	723.3	661.8	648.2	642.2	639.2	636.2
17.5°	2521.0	2072.3	1397.0	1015.9	723.3	618.2	595.7	583.7	571.7	567.2	559.7
20°	2579.5	2013.8	1260.5	832.8	612.2	559.7	532.7	510.2	492.2	480.2	478.7
22.5°	2635.0	1938.7	1117.9	690.3	558.2	502.7	459.2	435.2	414.2	399.2	403.7
25°	2665.0	1847.2	990.4	601.7	508.7	445.7	397.7	367.6	345.1	337.6	336.1
27.5°	2665.0	1734.7	865.8	550.7	463.7	394.7	345.1	316.6	301.6	291.1	292.6
30°	2644.0	1610.1	750.3	511.7	424.7	349.6	303.1	277.6	265.6	258.1	256.6
32.5°	2627.5	1491.6	651.2	474.2	384.1	310.6	270.1	250.6	238.6	231.1	231.1
35°	2653.0	1389.5	574.7	436.7	346.6	280.6	244.6	226.6	214.6	208.6	207.1
37.5°	2720.5	1296.5	516.2	396.2	312.1	255.1	226.6	205.6	193.6	186.1	183.1
40°	2887.1	1244.0	472.7	358.6	279.1	234.1	205.6	186.1	171.1	163.6	162.1
42.5°	3154.2	1245.5	430.7	324.1	253.6	216.1	187.6	165.1	148.6	141.1	139.6
45°	3556.4	1302.5	397.7	291.1	231.1	196.6	168.1	144.1	129.0	121.5	121.5
47.5°	4038.0	1413.5	369.1	262.6	210.1	178.6	148.6	124.5	109.5	103.5	103.5
50°	4560.2	1557.6	340.6	232.6	192.1	159.1	127.5	108.0	96.0	91.5	91.5
52.5°	5092.9	1731.7	312.1	208.6	172.6	138.1	109.5	96.0	85.5	82.5	81.0
55°	5792.2	1953.7	282.1	183.1	151.6	118.5	97.5	84.0	72.0	67.5	66.0
57.5°	6868.1	2288.4	249.1	160.6	124.5	99.0	84.0	70.5	57.0	49.5	48.0
60°	8166.1	2696.5	214.6	141.1	100.5	81.0	67.5	54.0	42.0	33.0	31.5
62.5°	9381.6	2956.1	181.6	118.5	79.5	61.5	48.0	40.5	30.0	21.0	19.5
65°	9918.8	2869.1	150.1	96.0	63.0	43.5	31.5	28.5	18.0	9.0	7.5
66°	9740.2	2740.0	138.1	87.0	57.0	37.5	27.0	24.0	13.5	4.5	4.5
67.5°	9213.5	2435.4	120.0	75.0	49.5	30.0	21.0	18.0	7.5	1.5	0.0
70°	7894.5	1970.3	94.5	55.5	36.0	21.0	12.0	9.0	4.5	0.0	0.0
72.5°	6063.8	1467.6	75.0	42.0	25.5	12.0	6.0	3.0	4.5	0.0	0.0
75°	3715.4	838.8	58.5	31.5	16.5	7.5	4.5	0.0	4.5	1.5	0.0
77.5°	1649.1	376.6	39.0	21.0	12.0	6.0	3.0	0.0	3.0	1.5	0.0
80°	417.2	123.0	22.5	15.0	9.0	4.5	1.5	0.0	3.0	3.0	1.5
82.5°	114.0	45.0	16.5	12.0	7.5	4.5	1.5	0.0	3.0	3.0	3.0
85°	45.0	21.0	15.0	12.0	9.0	4.5	1.5	0.0	3.0	3.0	3.0
87.5°	21.0	15.0	15.0	13.5	10.5	4.5	1.5	0.0	3.0	1.5	3.0
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)