

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: P452665

Luminaire Tested: **GALN-SA3C-827-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452665
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12691 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

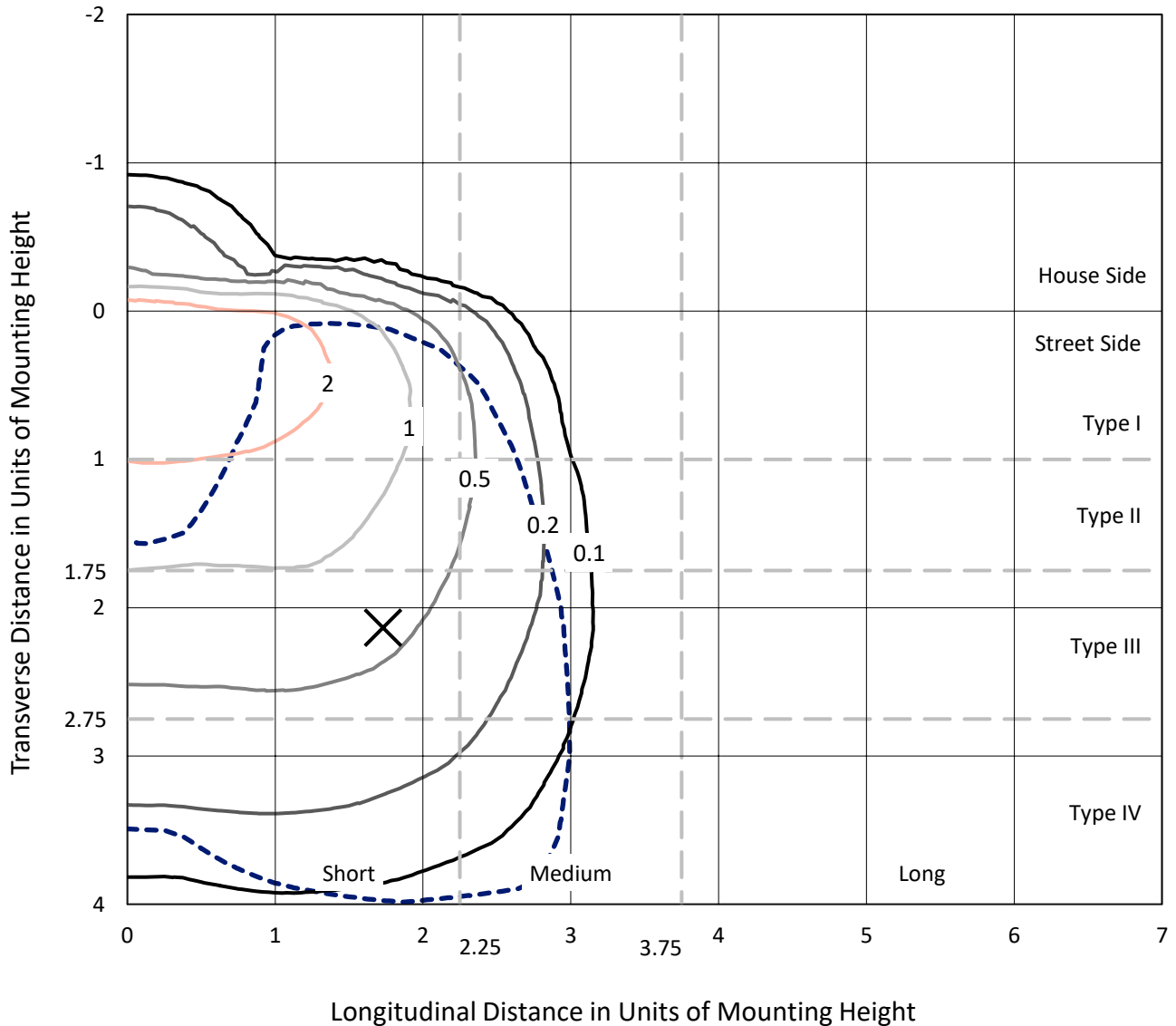
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA3C-827-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

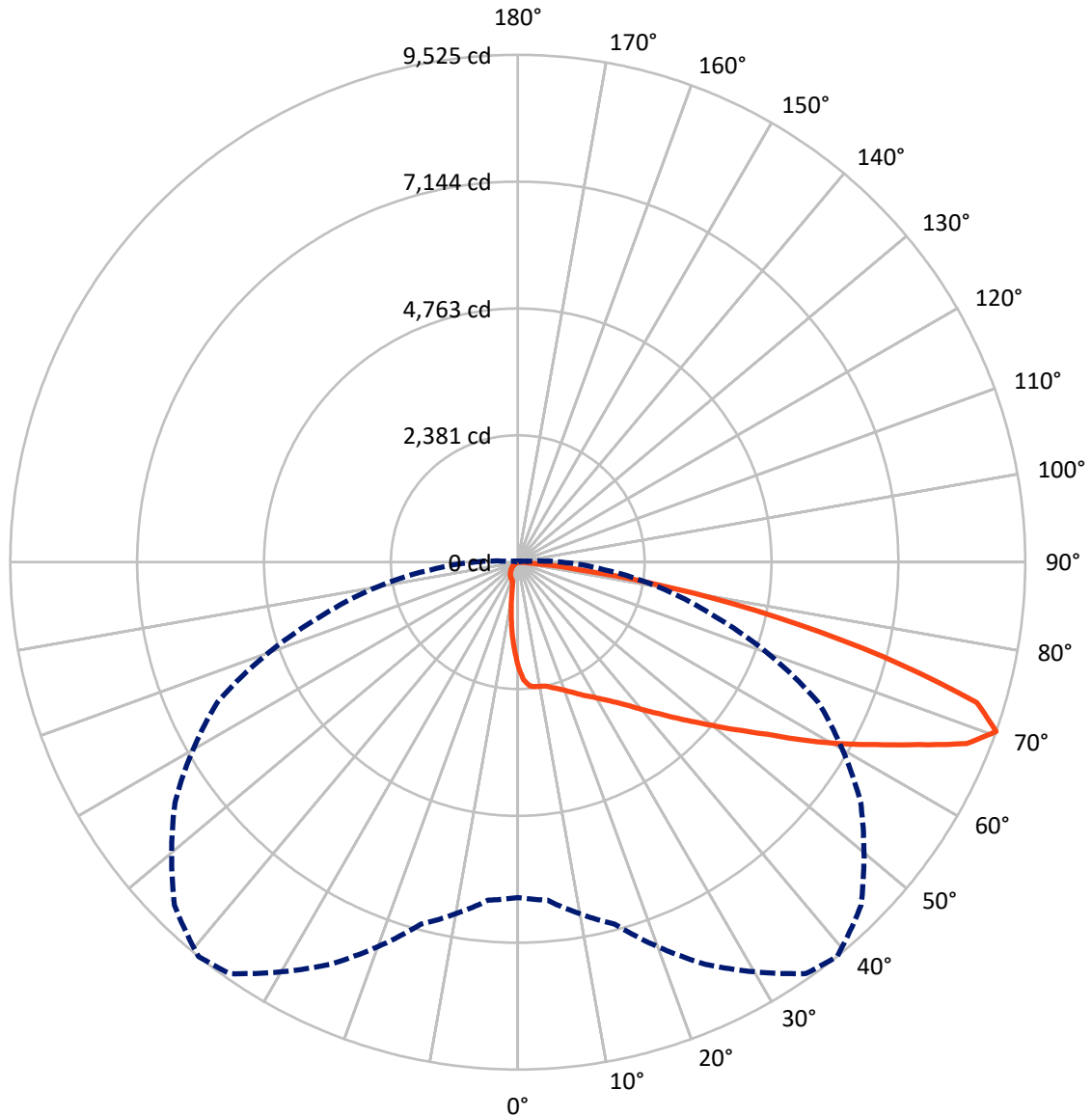
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P452665
CATALOG NUMBER: GALN-SA3C-827-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P452665

CATALOG NUMBER: GALN-SA3C-827-U-SL4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	827.5	0.0	827.5
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	11863.5	0.0	11863.5
	% Fixture	93.5	0.0	93.5
Total	Lumens	12691.0	0.0	12691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.9	1.3
10°-20°	438.9	3.5
20°-30°	735.3	5.8
30°-40°	1140.4	9.0
40°-50°	1807.2	14.2
50°-60°	2649.0	20.9
60°-70°	3395.4	26.8
70°-80°	2133.6	16.8
80°-90°	222.3	1.8
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°	12691.0	100.0
0°-180°	12691.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452665

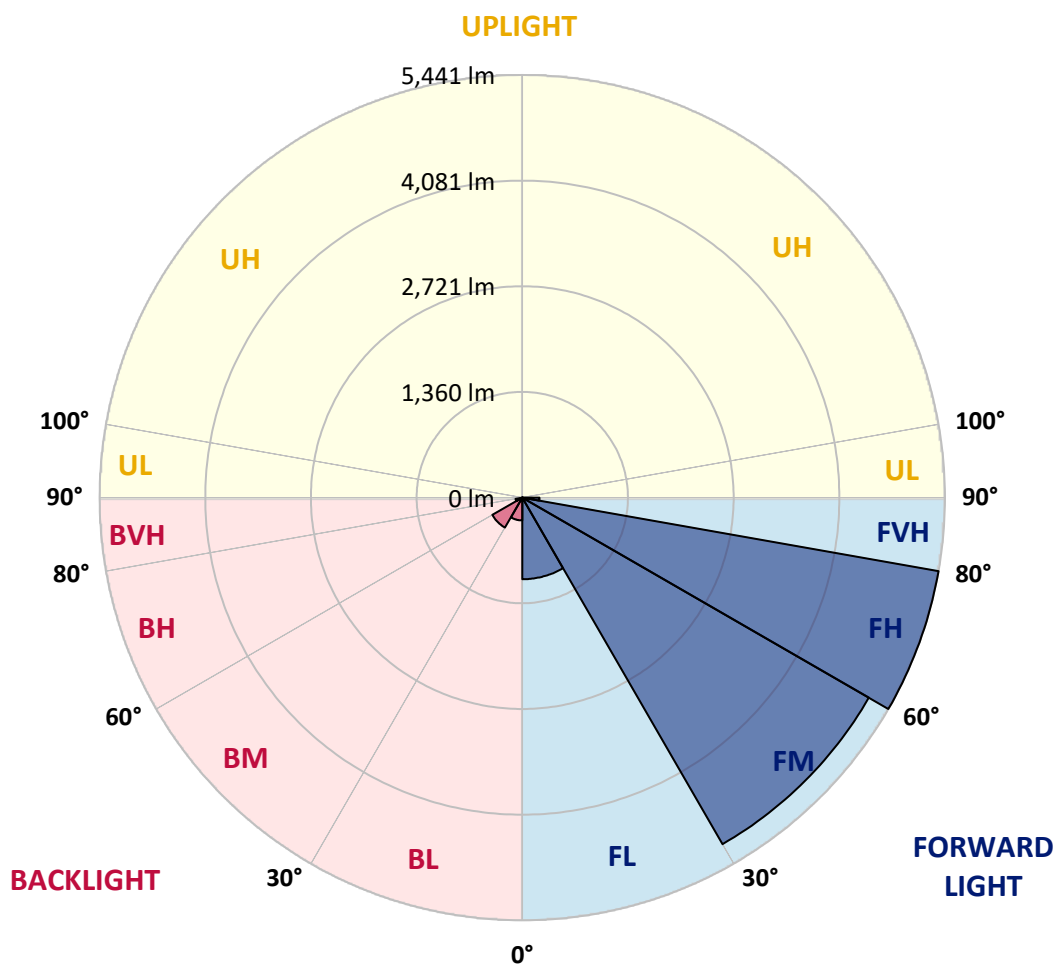
CATALOG NUMBER: GALN-SA3C-827-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1050.1	8.3			
FM (30°-60°)	5151.3	40.6			
FH (60°-80°)	5441.5	42.9			G3/7500
FVH (80°-90°)	220.6	1.7			G2/225
BL (0°-30°)	293.0	2.3	B1/500		
BM (30°-60°)	445.3	3.5	B1/1000		
BH (60°-80°)	87.5	0.7	B0/110		G0/110
BVH (80°-90°)	1.6	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 IV Short





REPORT NUMBER: P452665

CATALOG NUMBER: GALN-SA3C-827-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2
2.5°	2288.1	2280.4	2270.2	2258.2	2224.1	2218.2	2197.7	2154.2	2102.2	2059.5	2000.7
5°	2396.4	2400.7	2393.0	2371.7	2346.9	2332.4	2306.9	2239.5	2172.1	2086.0	1989.6
7.5°	2421.1	2429.7	2420.3	2399.8	2375.9	2360.6	2340.1	2282.1	2203.7	2105.6	1973.4
10°	2418.6	2428.8	2422.8	2404.1	2384.5	2370.0	2347.8	2301.7	2238.6	2135.4	1978.5
12.5°	2414.3	2428.0	2427.1	2417.7	2401.5	2390.4	2376.8	2335.9	2277.0	2178.9	2006.7
15°	2402.4	2419.4	2434.8	2442.5	2443.3	2443.3	2426.3	2382.8	2326.5	2236.1	2043.3
17.5°	2407.5	2427.1	2465.5	2487.7	2503.0	2501.3	2483.4	2436.5	2374.2	2294.9	2081.7
20°	2439.0	2465.5	2519.2	2563.6	2578.9	2573.8	2549.9	2495.3	2424.5	2345.2	2119.2
22.5°	2516.7	2540.5	2607.9	2659.9	2671.0	2657.4	2623.3	2549.1	2485.1	2399.8	2164.4
25°	2632.6	2660.8	2723.0	2762.3	2762.3	2754.6	2706.8	2619.8	2553.3	2475.7	2223.3
27.5°	2773.3	2797.2	2858.6	2893.6	2873.1	2851.0	2803.2	2698.3	2634.3	2571.2	2294.1
30°	2915.8	2931.1	2995.9	3011.3	2990.0	2961.8	2910.7	2805.8	2749.5	2700.9	2396.4
32.5°	3050.5	3083.8	3137.5	3134.1	3105.1	3091.4	3044.5	2932.8	2901.3	2896.2	2539.7
35°	3185.3	3210.8	3258.6	3270.5	3245.0	3242.4	3208.3	3125.6	3126.4	3159.7	2763.1
37.5°	3301.2	3324.3	3380.5	3407.0	3412.1	3424.9	3411.3	3356.7	3434.3	3525.5	3059.0
40°	3398.5	3430.9	3502.5	3548.6	3601.4	3648.3	3650.9	3662.8	3818.9	3975.8	3445.4
42.5°	3474.4	3519.6	3623.6	3708.9	3830.0	3889.7	3937.4	4003.1	4265.8	4500.3	3900.8
45°	3573.3	3625.3	3754.9	3888.8	4078.2	4176.2	4242.7	4418.4	4791.1	5110.9	4368.1
47.5°	3737.0	3764.3	3896.5	4091.8	4340.8	4480.7	4610.3	4876.4	5354.8	5641.4	4757.0
50°	3947.7	3965.6	4065.4	4336.6	4658.9	4843.1	5079.4	5392.3	5939.8	6081.4	4977.0
52.5°	4180.5	4186.5	4261.5	4606.0	5015.4	5247.4	5511.7	5898.1	6416.6	6395.2	5122.8
55°	4450.8	4442.3	4506.3	4898.6	5437.5	5702.8	6010.6	6415.7	6830.2	6617.8	5206.4
57.5°	4760.4	4737.4	4799.6	5286.6	5978.2	6295.5	6608.4	6862.6	7150.8	6804.6	5246.5
60°	5084.5	5038.4	5112.6	5722.4	6615.3	6916.3	7176.4	7244.6	7488.5	6953.0	5177.4
62.5°	5342.9	5343.7	5481.9	6186.3	7270.2	7533.7	7671.9	7733.3	7779.4	6920.6	4814.1
65°	5746.3	5759.9	5980.8	6830.2	8028.4	8256.9	8351.6	8152.0	7792.2	6518.0	4268.3
67.5°	6162.4	6205.9	6610.2	7717.1	8904.2	9088.4	8966.5	8233.1	7444.2	5599.6	3236.4
70°	6298.0	6369.7	7035.7	8327.7	9429.6	9525.1	9112.3	7855.3	6223.0	3743.8	1628.9
72.5°	5771.0	5887.0	6790.9	8105.1	9094.4	9011.7	8152.9	6588.0	3956.2	1421.6	497.2
75°	4069.6	4120.8	5643.9	6723.6	7314.6	7080.1	6201.7	4247.0	1627.2	399.1	170.6
77.5°	2101.3	2076.6	3356.7	4461.1	5216.7	4973.6	4061.1	2198.6	616.6	166.3	105.7
80°	1086.5	1104.4	1452.3	2337.6	3184.4	2930.3	2165.3	1019.1	328.3	92.1	81.0
82.5°	608.9	571.4	834.9	1020.8	1489.0	1167.5	830.6	721.5	143.3	55.4	76.8
85°	110.9	116.0	458.0	551.8	516.8	328.3	267.8	481.8	41.8	30.7	53.7
87.5°	1.7	1.7	88.7	158.6	100.6	46.1	84.4	69.1	8.5	11.9	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P452665
 CATALOG NUMBER: GALN-SA3C-827-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2	1980.2
2.5°	1970.9	1938.4	1877.9	1818.2	1742.3	1680.0	1638.3	1594.8	1550.4	1553.8	1564.1
5°	1936.7	1880.5	1761.1	1634.8	1513.7	1404.6	1297.1	1200.8	1161.5	1125.7	1127.4
7.5°	1902.6	1823.3	1648.5	1450.6	1267.3	1081.4	946.6	835.8	776.9	732.6	719.8
10°	1887.3	1782.4	1545.3	1273.2	1013.1	810.2	637.1	546.7	476.7	454.5	460.5
12.5°	1894.1	1761.9	1452.3	1112.9	803.3	564.6	443.5	397.4	382.1	379.5	377.8
15°	1906.9	1747.4	1361.1	935.5	590.1	419.6	372.7	364.2	362.4	360.7	361.6
17.5°	1923.9	1734.6	1263.9	769.2	452.8	366.7	353.1	348.8	347.9	347.9	347.9
20°	1941.0	1720.1	1155.6	620.8	377.8	346.2	337.7	335.2	334.3	334.3	333.4
22.5°	1960.6	1707.3	1045.5	487.8	347.9	331.7	324.1	322.4	321.5	320.7	320.7
25°	1988.8	1691.1	928.7	399.1	329.2	318.1	310.4	308.7	307.9	304.5	305.3
27.5°	2026.3	1679.2	808.5	344.5	312.1	301.0	295.9	293.4	291.7	289.1	290.0
30°	2077.5	1669.0	680.5	314.7	292.5	283.1	278.0	276.3	274.6	272.0	272.0
32.5°	2166.1	1673.2	545.8	290.8	274.6	263.5	258.4	256.7	255.0	252.4	252.4
35°	2299.2	1698.0	436.6	270.3	253.3	242.2	237.1	237.1	234.5	231.1	230.3
37.5°	2516.7	1761.1	350.5	250.7	232.8	222.6	216.6	214.9	212.4	207.2	206.4
40°	2773.3	1859.1	295.1	231.1	214.1	203.8	198.7	193.6	186.8	181.6	180.8
42.5°	3095.7	1959.8	255.8	211.5	196.1	186.8	180.8	172.3	162.0	155.2	154.4
45°	3431.7	2051.9	229.4	193.6	179.1	171.4	164.6	150.9	138.2	129.6	128.8
47.5°	3682.4	2068.9	208.1	176.5	164.6	156.9	147.5	130.5	113.4	105.7	103.2
50°	3801.0	1986.2	185.9	159.5	150.1	141.6	129.6	110.0	91.3	81.9	80.2
52.5°	3842.8	1842.9	168.0	144.1	135.6	125.4	110.9	88.7	71.6	62.3	61.4
55°	3825.7	1662.1	151.8	129.6	118.5	106.6	92.1	70.8	52.9	45.2	43.5
57.5°	3736.2	1431.9	135.6	115.1	101.5	89.5	73.3	52.9	35.8	29.0	28.1
60°	3494.8	1118.0	119.4	98.9	86.1	73.3	58.0	37.5	22.2	16.2	16.2
62.5°	3087.2	829.8	104.0	82.7	72.5	58.8	40.9	23.9	11.9	8.5	7.7
65°	2579.8	612.3	87.0	69.9	60.5	46.1	29.0	14.5	6.0	2.6	1.7
67.5°	1800.3	377.8	72.5	57.1	49.5	33.3	17.9	6.0	2.6	0.0	0.0
70°	817.8	179.9	55.4	43.5	37.5	23.9	9.4	3.4	1.7	0.0	0.0
72.5°	254.1	94.7	39.2	31.6	25.6	15.4	5.1	2.6	1.7	0.0	0.0
75°	117.7	60.5	24.7	17.1	14.5	7.7	3.4	1.7	0.9	0.0	0.0
77.5°	87.8	46.9	14.5	9.4	7.7	5.1	2.6	1.7	0.9	0.0	0.0
80°	76.8	23.9	8.5	6.0	4.3	3.4	1.7	0.9	0.0	0.0	0.0
82.5°	69.1	11.9	5.1	3.4	2.6	1.7	0.9	0.9	0.0	0.0	0.0
85°	37.5	6.8	3.4	2.6	1.7	0.9	0.9	0.0	0.0	0.0	0.0
87.5°	6.8	3.4	2.6	1.7	1.7	0.9	0.9	0.9	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)