

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: P450947

Luminaire Tested: **GALN-SA1D-740-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6413 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

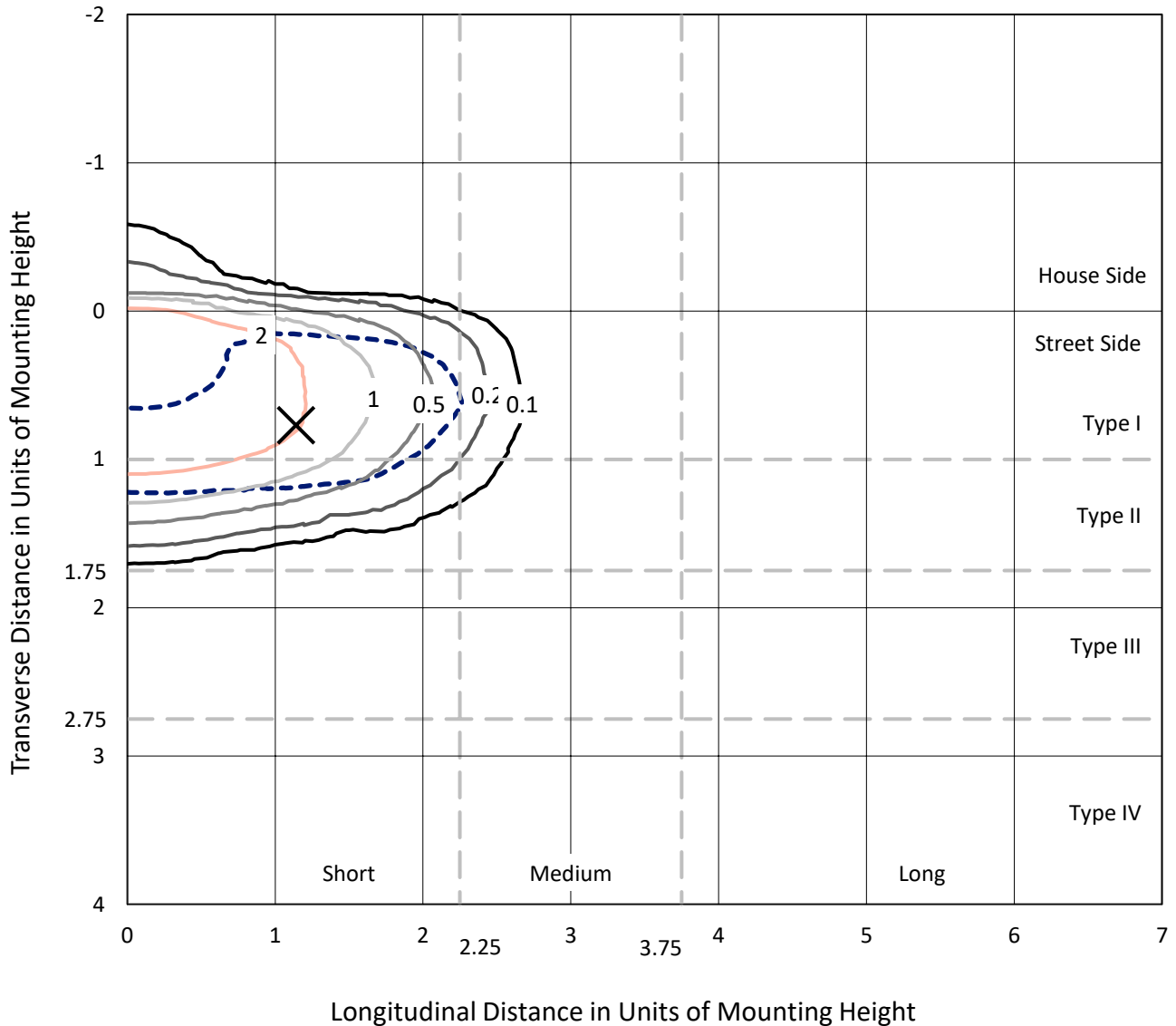
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450947
 CATALOG NUMBER: GALN-SA1D-740-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

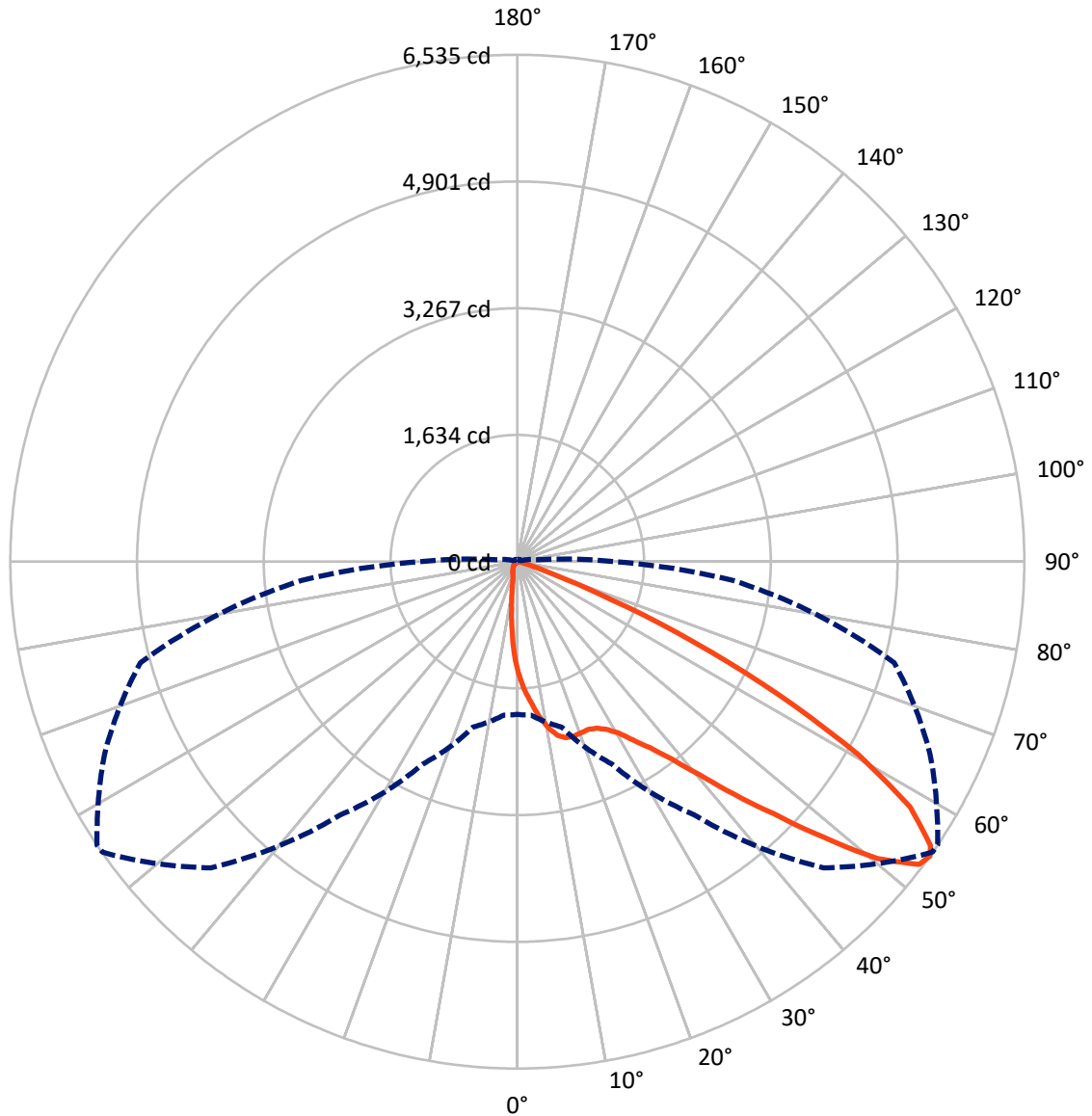
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

REPORT NUMBER: P450947
CATALOG NUMBER: GALN-SA1D-740-U-AFL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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CATALOG NUMBER: GALN-SA1D-740-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	303.3	0.0	303.3
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	6109.8	0.0	6109.8
	% Fixture	95.3	0.0	95.3
Total	Lumens	6413.0	0.0	6413.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	2.0
10°-20°	340.4	5.3
20°-30°	589.5	9.2
30°-40°	1017.5	15.9
40°-50°	1731.8	27.0
50°-60°	1713.9	26.7
60°-70°	782.3	12.2
70°-80°	100.5	1.6
80°-90°	11.3	0.2
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°	6413.0	100.0
0°-180°	6413.0	100.0



REPORT NUMBER: P450947

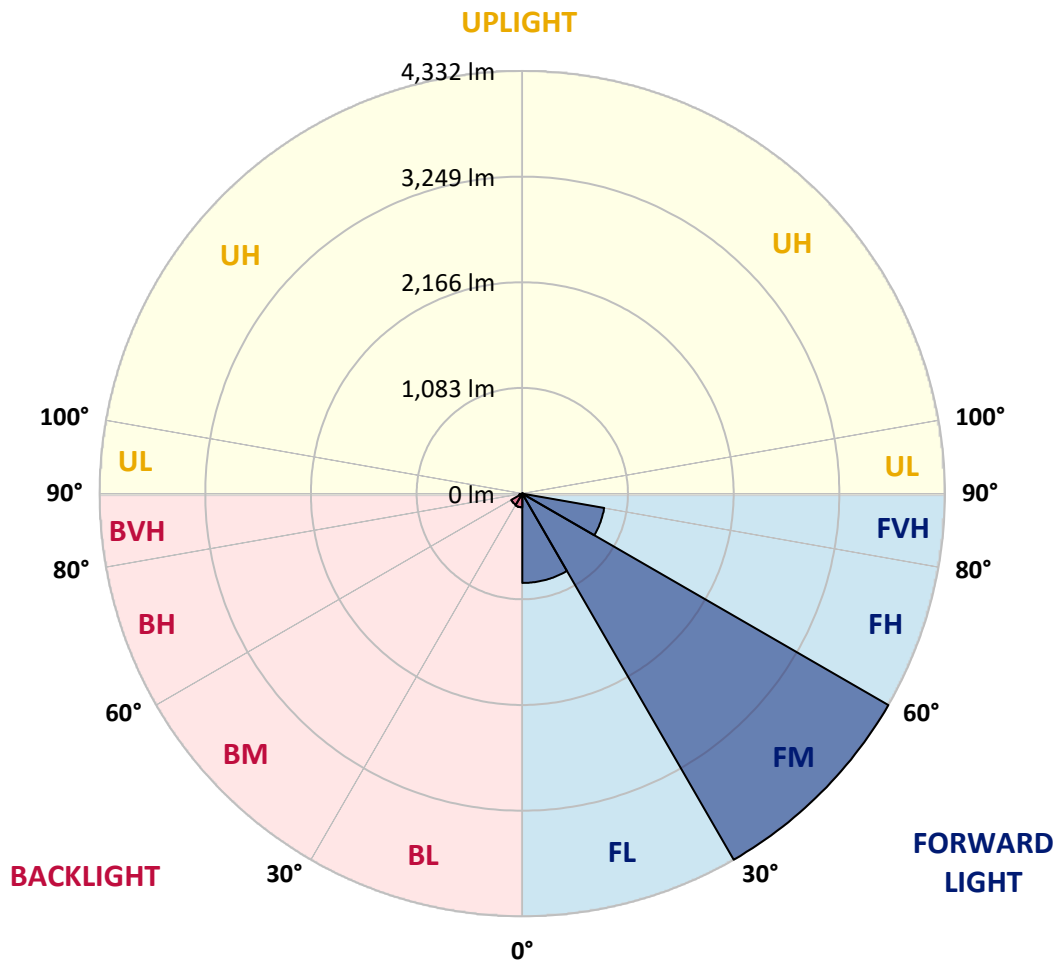
CATALOG NUMBER: GALN-SA1D-740-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	915.5	14.3			
FM	(30°-60°)	4331.8	67.5			
FH	(60°-80°)	852.3	13.3			G1/1800
FVH	(80°-90°)	10.1	0.2			G1/100
BL	(0°-30°)	140.2	2.2	B1/500		
BM	(30°-60°)	131.4	2.0	B0/220		
BH	(60°-80°)	30.4	0.5	B0/110		G0/110
BVH	(80°-90°)	1.2	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-G1

Type II Short





REPORT NUMBER: P450947

CATALOG NUMBER: GALN-SA1D-740-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1424.8	1424.8	1424.8	1424.8	1424.8	1424.8	1424.8	1424.8	1424.8	1424.8	1424.8
2.5°	1810.7	1798.2	1780.9	1767.5	1735.9	1690.4	1642.4	1642.4	1596.1	1531.7	1465.9
5°	2088.5	2080.3	2063.4	2028.8	1993.3	1929.7	1833.2	1816.4	1733.7	1616.9	1494.0
7.5°	2201.4	2205.3	2206.2	2197.1	2180.2	2117.5	2021.9	2010.2	1878.2	1721.6	1530.8
10°	2093.3	2112.3	2130.9	2168.5	2221.8	2236.9	2182.8	2170.7	2040.9	1827.6	1570.6
12.5°	1932.3	1942.7	1953.1	2012.4	2119.2	2241.7	2298.3	2297.9	2188.0	1933.2	1621.2
15°	1857.5	1866.5	1867.4	1893.8	1986.4	2164.7	2347.7	2354.2	2331.7	2063.4	1675.7
17.5°	1873.0	1880.4	1874.3	1880.8	1929.3	2079.8	2342.0	2363.7	2448.1	2188.4	1725.1
20°	1974.7	1989.0	1965.6	1947.5	1962.2	2057.3	2323.0	2353.3	2530.3	2310.5	1770.1
22.5°	2157.3	2165.1	2135.7	2085.9	2059.9	2104.5	2317.8	2347.7	2600.4	2410.4	1796.0
25°	2360.2	2357.6	2325.2	2269.4	2214.8	2199.7	2352.0	2378.8	2658.3	2500.4	1803.8
27.5°	2563.1	2570.9	2516.4	2447.2	2381.9	2342.5	2428.6	2448.5	2723.7	2602.9	1813.3
30°	2798.9	2786.4	2732.7	2653.6	2578.7	2523.8	2551.9	2557.5	2813.7	2738.8	1838.4
32.5°	3105.7	3071.1	3011.0	2872.5	2818.8	2725.8	2732.7	2739.7	2923.1	2873.4	1868.7
35°	3521.9	3520.2	3402.5	3216.0	3085.4	2969.9	2939.6	2945.2	3088.8	3073.3	1935.8
37.5°	4023.0	4029.9	3895.8	3708.0	3467.4	3284.0	3221.7	3222.5	3340.6	3349.3	2037.9
40°	4431.0	4449.2	4369.1	4242.3	4004.8	3717.9	3613.2	3603.7	3694.6	3683.8	2183.7
42.5°	4606.6	4623.5	4653.4	4697.5	4566.8	4330.2	4083.1	4096.1	4123.8	4048.1	2347.2
45°	4520.5	4547.4	4664.6	4937.2	5060.1	4980.5	4685.8	4640.4	4523.1	4444.0	2511.7
47.5°	4161.9	4227.2	4423.2	4877.1	5307.1	5576.3	5366.0	5305.8	4922.9	4733.0	2616.4
50°	3572.1	3576.0	3849.0	4429.2	5179.1	5952.2	6060.4	6015.4	5295.5	4895.2	2669.1
52.5°	2589.5	2674.8	2924.9	3596.8	4624.4	5895.1	6503.0	6484.4	5679.7	4978.3	2745.3
54°	1968.7	1985.1	2207.5	2874.2	3987.1	5581.5	6530.3	6534.6	5870.5	5028.5	2790.3
55°	1613.9	1574.5	1808.1	2448.5	3552.2	5304.1	6441.2	6461.9	5956.1	5054.5	2823.6
57.5°	765.0	765.4	944.1	1291.5	2224.8	4118.6	5896.4	5970.0	5965.7	5099.0	2926.2
60°	387.2	389.8	429.2	596.2	1099.0	2737.9	4875.3	5050.6	5506.6	5105.5	2959.9
62.5°	270.9	267.8	261.3	286.9	462.5	1391.5	3629.7	3782.0	4678.5	4858.5	2852.6
65°	231.9	225.4	207.2	203.4	233.6	554.3	2260.7	2509.1	3572.1	4206.9	2547.1
67.5°	198.2	195.6	179.1	169.2	165.3	241.4	1166.5	1297.1	2441.6	3023.9	1929.3
70°	168.3	167.0	157.1	144.5	133.7	144.5	432.7	536.1	1360.7	1628.1	910.3
72.5°	136.7	138.0	139.8	123.7	112.5	102.5	184.8	215.0	569.4	581.9	318.4
75°	119.8	118.6	118.6	107.7	93.9	76.2	101.7	109.5	174.4	161.8	74.0
77.5°	84.4	81.3	95.2	88.7	78.3	54.1	58.0	61.4	72.3	61.9	34.6
80°	58.4	58.4	61.0	79.6	70.5	39.4	35.5	38.1	42.8	36.8	19.9
82.5°	32.9	33.7	39.8	42.4	41.1	26.4	23.4	23.8	28.6	25.1	12.5
85°	3.9	6.5	22.9	22.5	16.9	11.7	13.0	13.4	17.7	15.6	7.4
87.5°	0.4	0.9	4.8	6.1	4.3	4.8	4.8	4.8	6.1	6.9	5.2
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: P450947

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1424.8	1424.8	1424.8	1424.8	1424.8	1424.8	1424.8	1424.8	1424.8	1424.8	1424.8
2.5°	1430.4	1397.5	1319.2	1228.4	1170.4	1076.1	996.4	938.9	924.6	896.9	905.1
5°	1428.7	1360.3	1200.7	1031.9	851.9	717.8	617.9	539.1	504.5	481.6	465.6
7.5°	1429.5	1322.7	1066.5	797.8	582.8	451.3	358.7	310.7	278.6	265.2	267.0
10°	1432.1	1280.3	910.8	591.0	393.3	291.6	234.9	212.0	201.2	199.5	199.0
12.5°	1438.2	1234.0	761.9	438.7	275.2	212.0	190.4	182.6	179.1	179.1	177.8
15°	1444.7	1182.9	638.2	326.2	212.0	182.2	172.2	168.3	166.1	166.1	165.7
17.5°	1444.7	1124.1	522.7	253.1	182.6	167.4	159.7	154.5	152.7	152.7	152.3
20°	1435.6	1055.7	420.1	203.8	165.7	153.6	145.8	140.2	138.0	137.2	136.7
22.5°	1404.0	964.4	334.5	175.2	151.9	141.5	131.5	125.0	123.3	122.4	122.9
25°	1347.8	861.4	264.8	154.0	139.3	126.8	118.1	113.4	111.6	111.6	112.1
27.5°	1289.8	753.7	209.8	138.0	124.2	112.9	106.0	103.0	102.5	103.8	104.3
30°	1236.1	645.5	170.0	125.0	110.8	101.2	96.5	95.6	95.6	96.1	96.5
32.5°	1176.4	550.8	142.3	113.8	99.9	91.7	89.1	89.1	90.0	90.0	90.9
35°	1138.8	469.4	125.0	103.0	91.7	84.8	83.1	83.5	84.8	86.5	87.4
37.5°	1118.5	404.5	113.8	94.3	83.9	79.2	77.4	78.3	81.3	84.4	84.8
40°	1120.2	355.7	104.7	87.0	77.9	72.7	71.4	74.0	77.0	80.0	80.5
42.5°	1139.2	319.3	96.1	78.3	72.7	65.3	64.9	67.5	68.8	71.8	72.3
45°	1161.7	292.9	87.0	69.2	63.2	56.7	57.1	59.3	61.0	65.8	66.6
47.5°	1168.6	274.7	76.6	58.8	51.9	49.8	50.2	51.5	54.9	59.3	59.7
50°	1176.4	263.5	66.6	49.8	44.1	43.7	44.1	45.0	47.2	48.9	48.5
52.5°	1209.7	263.1	58.4	43.3	37.6	38.5	38.9	38.5	36.8	34.2	33.3
54°	1240.9	264.4	54.5	40.2	34.6	35.9	35.5	33.3	29.0	26.4	25.1
55°	1266.0	265.7	52.4	38.1	32.9	33.3	33.7	29.4	23.8	21.2	20.3
57.5°	1315.3	262.6	47.2	33.3	29.0	27.3	26.8	19.5	13.0	11.2	10.4
60°	1290.7	237.1	42.8	28.6	24.7	22.1	18.2	10.8	6.5	4.8	4.8
62.5°	1193.7	201.2	38.1	23.4	20.3	16.9	9.5	6.1	3.0	1.7	1.3
65°	1067.8	169.2	34.2	18.6	16.0	10.8	5.2	3.9	1.3	0.0	0.0
67.5°	794.0	125.5	29.0	14.7	12.1	6.9	3.5	2.2	0.4	0.0	0.0
70°	367.8	76.6	24.7	11.2	8.7	5.2	2.6	1.3	0.0	0.0	0.0
72.5°	105.6	48.0	20.3	8.2	6.1	4.3	2.2	0.9	0.4	0.0	0.0
75°	36.8	38.5	15.1	6.1	4.8	3.0	1.7	0.9	0.4	0.0	0.0
77.5°	22.1	31.2	9.5	5.2	3.9	2.6	1.7	0.9	0.4	0.4	0.0
80°	12.5	20.8	6.1	4.3	3.5	2.2	1.3	0.9	0.4	0.4	0.0
82.5°	6.9	10.0	4.8	3.9	3.0	2.2	1.3	0.9	0.4	0.4	0.4
85°	5.6	5.2	3.9	3.5	2.6	1.7	1.3	0.4	0.0	0.0	0.0
87.5°	4.3	3.5	3.5	3.5	2.6	1.7	1.3	0.4	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)