

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: P451730

Luminaire Tested: **GALN-SA2C-827-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451730
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-SA2C-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8515 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

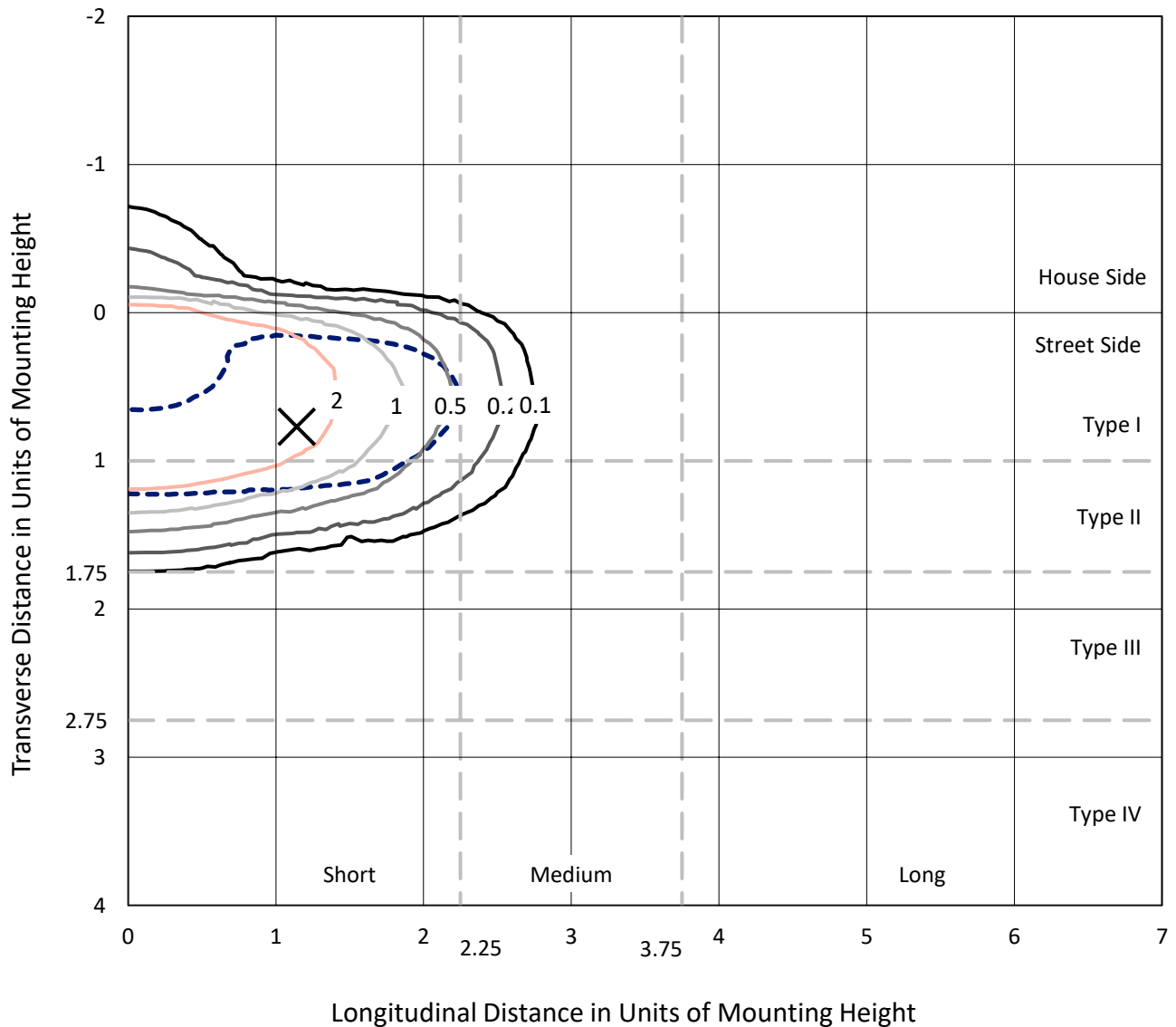
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451730
 CATALOG NUMBER: GALN-SA2C-827-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

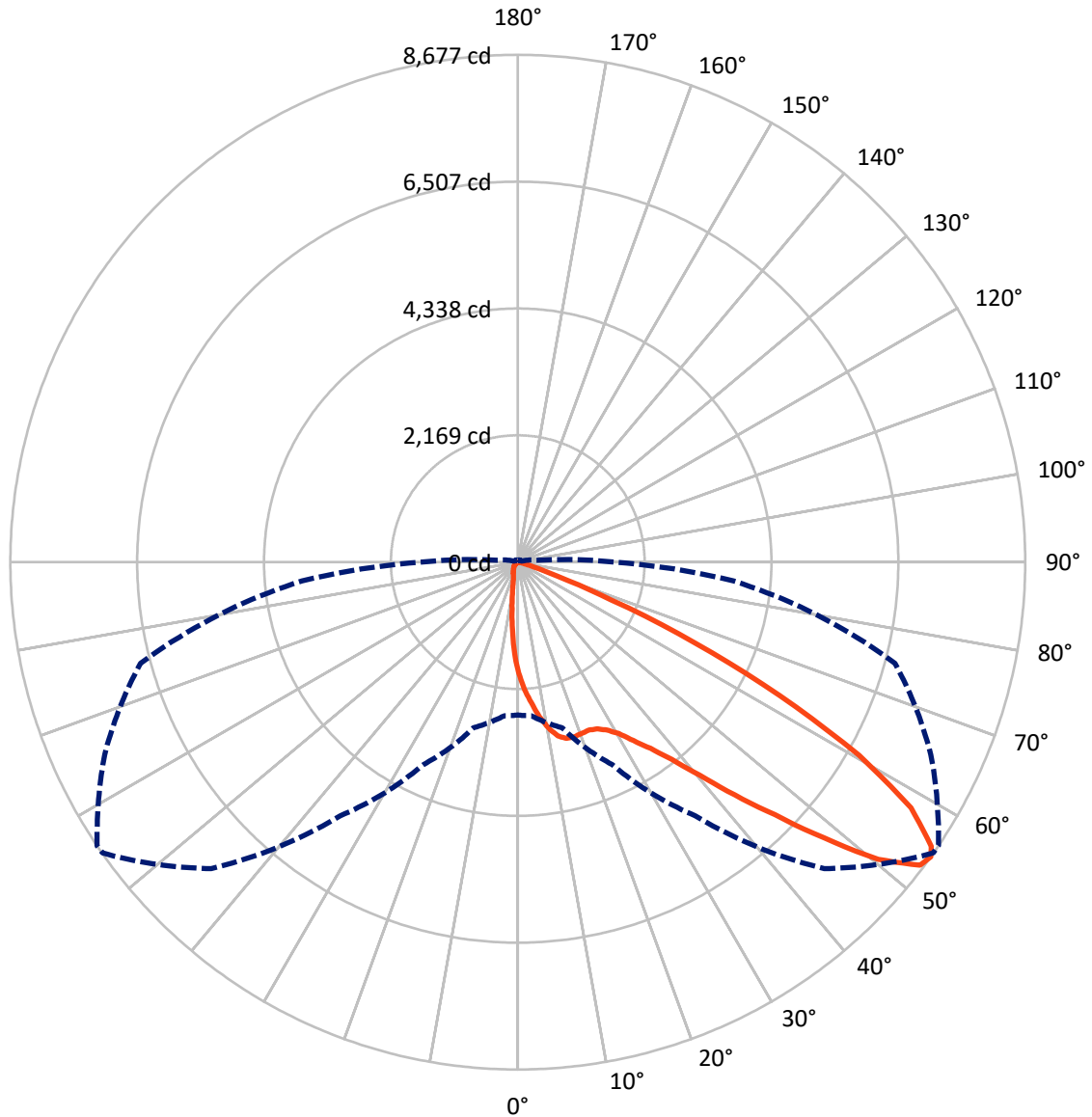
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

REPORT NUMBER: P451730
CATALOG NUMBER: GALN-SA2C-827-U-AFL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P451730

CATALOG NUMBER: GALN-SA2C-827-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	402.6	0.0	402.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	8112.3	0.0	8112.3
	% Fixture	95.3	0.0	95.3
Total	Lumens	8515.0	0.0	8515.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.2	2.0
10°-20°	451.9	5.3
20°-30°	782.7	9.2
30°-40°	1351.0	15.9
40°-50°	2299.5	27.0
50°-60°	2275.6	26.7
60°-70°	1038.6	12.2
70°-80°	133.4	1.6
80°-90°	15.0	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°	8515.0	100.0
0°-180°	8515.0	100.0



REPORT NUMBER: P451730

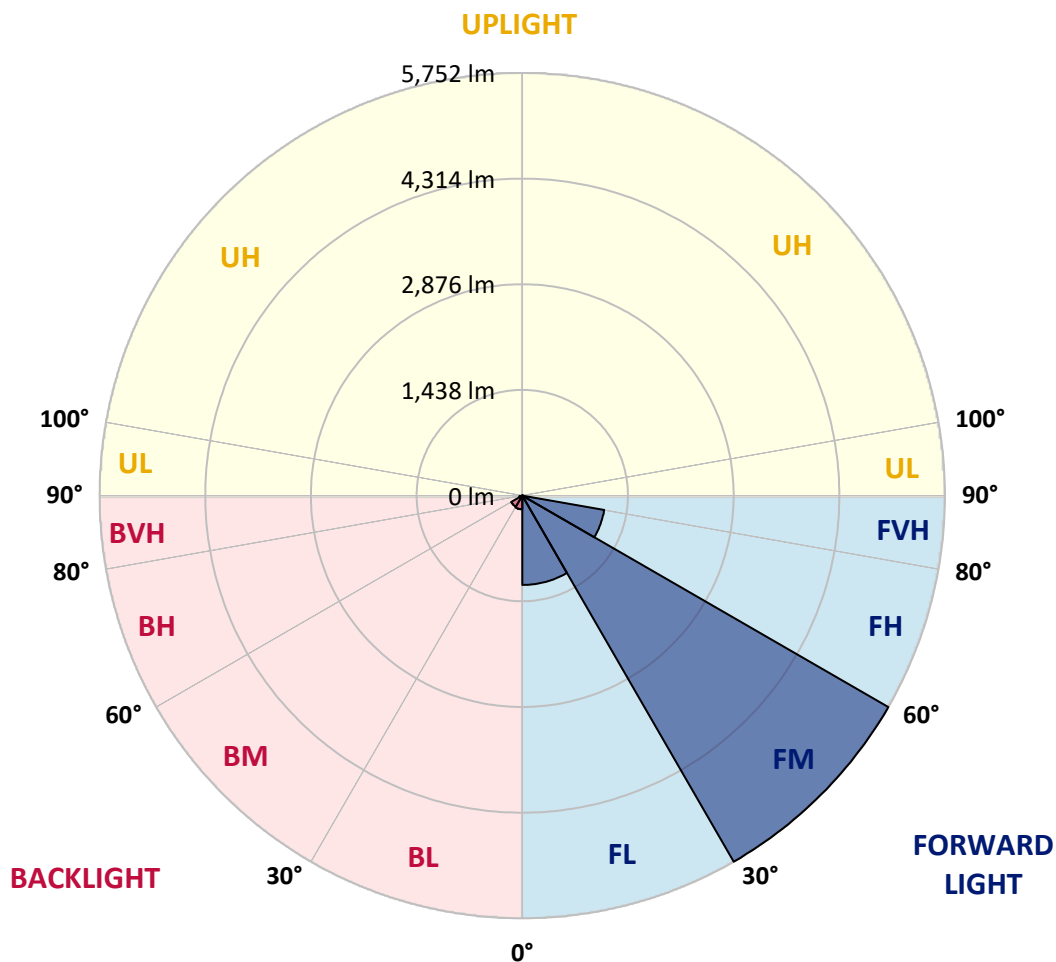
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1215.5	14.3			
FM (30°-60°)	5751.7	67.5			
FH (60°-80°)	1131.7	13.3			G1/1800
FVH (80°-90°)	13.4	0.2			G1/100
BL (0°-30°)	186.2	2.2	B1/500		
BM (30°-60°)	174.5	2.0	B0/220		
BH (60°-80°)	40.3	0.5	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-G1

Type II Short





REPORT NUMBER: P451730

CATALOG NUMBER: GALN-SA2C-827-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1891.8	1891.8	1891.8	1891.8	1891.8	1891.8	1891.8	1891.8	1891.8	1891.8	1891.8
2.5°	2404.2	2387.6	2364.6	2346.8	2304.8	2244.5	2180.8	2180.8	2119.3	2033.7	1946.4
5°	2773.1	2762.1	2739.7	2693.8	2646.7	2562.2	2434.1	2411.7	2302.0	2146.9	1983.7
7.5°	2923.0	2928.2	2929.3	2917.2	2894.8	2811.5	2684.6	2669.1	2493.9	2285.9	2032.5
10°	2779.4	2804.6	2829.4	2879.3	2950.0	2970.1	2898.3	2882.2	2709.9	2426.6	2085.4
12.5°	2565.7	2579.5	2593.2	2671.9	2813.8	2976.4	3051.7	3051.1	2905.2	2566.8	2152.6
15°	2466.3	2478.3	2479.5	2514.5	2637.5	2874.2	3117.2	3125.8	3095.9	2739.7	2225.0
17.5°	2487.0	2496.7	2488.7	2497.3	2561.6	2761.6	3109.7	3138.4	3250.5	2905.8	2290.5
20°	2622.0	2640.9	2609.9	2585.8	2605.3	2731.7	3084.4	3124.6	3359.6	3067.8	2350.2
22.5°	2864.4	2874.7	2835.7	2769.6	2735.1	2794.3	3077.5	3117.2	3452.7	3200.5	2384.7
25°	3133.8	3130.4	3087.3	3013.2	2940.8	2920.7	3122.9	3158.5	3529.7	3320.0	2395.0
27.5°	3403.3	3413.6	3341.2	3249.3	3162.6	3110.3	3224.6	3251.0	3616.4	3456.1	2407.7
30°	3716.4	3699.7	3628.5	3523.3	3423.9	3351.0	3388.3	3395.8	3735.9	3636.5	2441.0
32.5°	4123.7	4077.7	3997.9	3814.0	3742.8	3619.3	3628.5	3637.7	3881.2	3815.2	2481.2
35°	4676.3	4674.0	4517.8	4270.2	4096.7	3943.3	3903.1	3910.5	4101.3	4080.6	2570.3
37.5°	5341.6	5350.8	5172.7	4923.4	4603.9	4360.4	4277.6	4278.8	4435.6	4447.1	2705.8
40°	5883.3	5907.5	5801.2	5632.9	5317.5	4936.6	4797.5	4784.9	4905.6	4891.2	2899.4
42.5°	6116.6	6139.0	6178.6	6237.2	6063.7	5749.5	5421.4	5438.7	5475.4	5374.9	3116.6
45°	6002.2	6037.9	6193.6	6555.5	6718.6	6612.9	6221.7	6161.4	6005.7	5900.6	3334.9
47.5°	5526.0	5612.7	5873.0	6475.6	7046.7	7404.0	7124.8	7044.9	6536.5	6284.3	3473.9
50°	4743.0	4748.1	5110.6	5881.0	6876.6	7903.2	8046.9	7987.1	7031.2	6499.8	3544.0
52.5°	3438.3	3551.5	3883.5	4775.7	6140.1	7827.4	8634.6	8609.8	7541.3	6610.1	3645.1
54°	2613.9	2635.7	2931.0	3816.3	5293.9	7410.9	8670.7	8676.5	7794.7	6676.7	3704.9
55°	2142.8	2090.6	2400.8	3251.0	4716.5	7042.6	8552.4	8580.0	7908.4	6711.2	3749.1
57.5°	1015.7	1016.3	1253.5	1714.8	2954.0	5468.5	7829.1	7926.8	7921.0	6770.3	3885.3
60°	514.2	517.6	569.9	791.6	1459.2	3635.4	6473.3	6706.0	7311.5	6779.0	3930.1
62.5°	359.6	355.6	347.0	380.9	614.1	1847.6	4819.4	5021.6	6211.9	6450.9	3787.6
65°	307.9	299.3	275.2	270.0	310.2	735.9	3001.7	3331.5	4743.0	5585.7	3382.0
67.5°	263.1	259.7	237.8	224.6	219.5	320.6	1548.8	1722.3	3241.8	4015.1	2561.6
70°	223.5	221.8	208.5	191.9	177.5	191.9	574.5	711.8	1806.8	2161.8	1208.7
72.5°	181.5	183.3	185.6	164.3	149.4	136.2	245.3	285.5	756.0	772.7	422.8
75°	159.1	157.4	157.4	143.0	124.7	101.1	135.0	145.3	231.5	214.9	98.2
77.5°	112.0	108.0	126.4	117.8	104.0	71.8	77.0	81.6	95.9	82.2	46.0
80°	77.6	77.6	81.0	105.7	93.6	52.3	47.1	50.6	56.9	48.8	26.4
82.5°	43.7	44.8	52.9	56.3	54.6	35.0	31.0	31.6	37.9	33.3	16.7
85°	5.2	8.6	30.4	29.9	22.4	15.5	17.2	17.8	23.6	20.7	9.8
87.5°	0.6	1.1	6.3	8.0	5.7	6.3	6.3	6.3	8.0	9.2	6.9
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: P451730

CATALOG NUMBER: GALN-SA2C-827-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1891.8	1891.8	1891.8	1891.8	1891.8	1891.8	1891.8	1891.8	1891.8	1891.8	1891.8
2.5°	1899.3	1855.6	1751.6	1631.0	1554.0	1428.8	1323.0	1246.6	1227.7	1190.9	1201.8
5°	1897.0	1806.2	1594.2	1370.2	1131.2	953.1	820.4	715.8	669.9	639.4	618.1
7.5°	1898.1	1756.2	1416.1	1059.4	773.8	599.2	476.3	412.5	370.0	352.2	354.5
10°	1901.6	1699.9	1209.3	784.8	522.2	387.2	311.9	281.5	267.1	264.8	264.3
12.5°	1909.6	1638.4	1011.7	582.5	365.4	281.5	252.8	242.4	237.8	237.8	236.1
15°	1918.2	1570.6	847.4	433.2	281.5	241.9	228.6	223.5	220.6	220.6	220.0
17.5°	1918.2	1492.5	694.0	336.1	242.4	222.3	212.0	205.1	202.8	202.8	202.2
20°	1906.2	1401.8	557.8	270.6	220.0	203.9	193.6	186.1	183.3	182.1	181.5
22.5°	1864.2	1280.5	444.1	232.7	201.6	187.9	174.6	166.0	163.7	162.6	163.2
25°	1789.5	1143.8	351.6	204.5	185.0	168.3	156.8	150.5	148.2	148.2	148.8
27.5°	1712.5	1000.8	278.6	183.3	164.9	149.9	140.7	136.7	136.2	137.9	138.5
30°	1641.3	857.1	225.8	166.0	147.1	134.4	128.1	127.0	127.0	127.5	128.1
32.5°	1562.0	731.3	189.0	151.1	132.7	121.8	118.3	118.3	119.5	119.5	120.6
35°	1512.1	623.3	166.0	136.7	121.8	112.6	110.3	110.9	112.6	114.9	116.0
37.5°	1485.1	537.1	151.1	125.2	111.5	105.1	102.8	104.0	108.0	112.0	112.6
40°	1487.3	472.2	139.0	115.5	103.4	96.5	94.8	98.2	102.3	106.3	106.9
42.5°	1512.6	424.0	127.5	104.0	96.5	86.7	86.2	89.6	91.3	95.4	95.9
45°	1542.5	388.9	115.5	91.9	83.9	75.3	75.8	78.7	81.0	87.3	88.5
47.5°	1551.7	364.8	101.7	78.1	68.9	66.1	66.6	68.4	73.0	78.7	79.3
50°	1562.0	349.9	88.5	66.1	58.6	58.0	58.6	59.7	62.6	64.9	64.3
52.5°	1606.3	349.3	77.6	57.4	50.0	51.1	51.7	51.1	48.8	45.4	44.2
54°	1647.6	351.0	72.4	53.4	46.0	47.7	47.1	44.2	38.5	35.0	33.3
55°	1681.0	352.7	69.5	50.6	43.7	44.2	44.8	39.1	31.6	28.1	27.0
57.5°	1746.4	348.7	62.6	44.2	38.5	36.2	35.6	25.9	17.2	14.9	13.8
60°	1713.7	314.8	56.9	37.9	32.7	29.3	24.1	14.4	8.6	6.3	6.3
62.5°	1585.0	267.1	50.6	31.0	27.0	22.4	12.6	8.0	4.0	2.3	1.7
65°	1417.8	224.6	45.4	24.7	21.3	14.4	6.9	5.2	1.7	0.0	0.0
67.5°	1054.2	166.6	38.5	19.5	16.1	9.2	4.6	2.9	0.6	0.0	0.0
70°	488.3	101.7	32.7	14.9	11.5	6.9	3.4	1.7	0.0	0.0	0.0
72.5°	140.2	63.8	27.0	10.9	8.0	5.7	2.9	1.1	0.6	0.0	0.0
75°	48.8	51.1	20.1	8.0	6.3	4.0	2.3	1.1	0.6	0.0	0.0
77.5°	29.3	41.4	12.6	6.9	5.2	3.4	2.3	1.1	0.6	0.6	0.0
80°	16.7	27.6	8.0	5.7	4.6	2.9	1.7	1.1	0.6	0.6	0.0
82.5°	9.2	13.2	6.3	5.2	4.0	2.9	1.7	1.1	0.6	0.6	0.6
85°	7.5	6.9	5.2	4.6	3.4	2.3	1.7	0.6	0.0	0.0	0.0
87.5°	5.7	4.6	4.6	4.6	3.4	2.3	1.7	0.6	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)