

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: P451382

Luminaire Tested: **GALN-SA2B-730-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451382
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-SA2B-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA 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: 8538 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

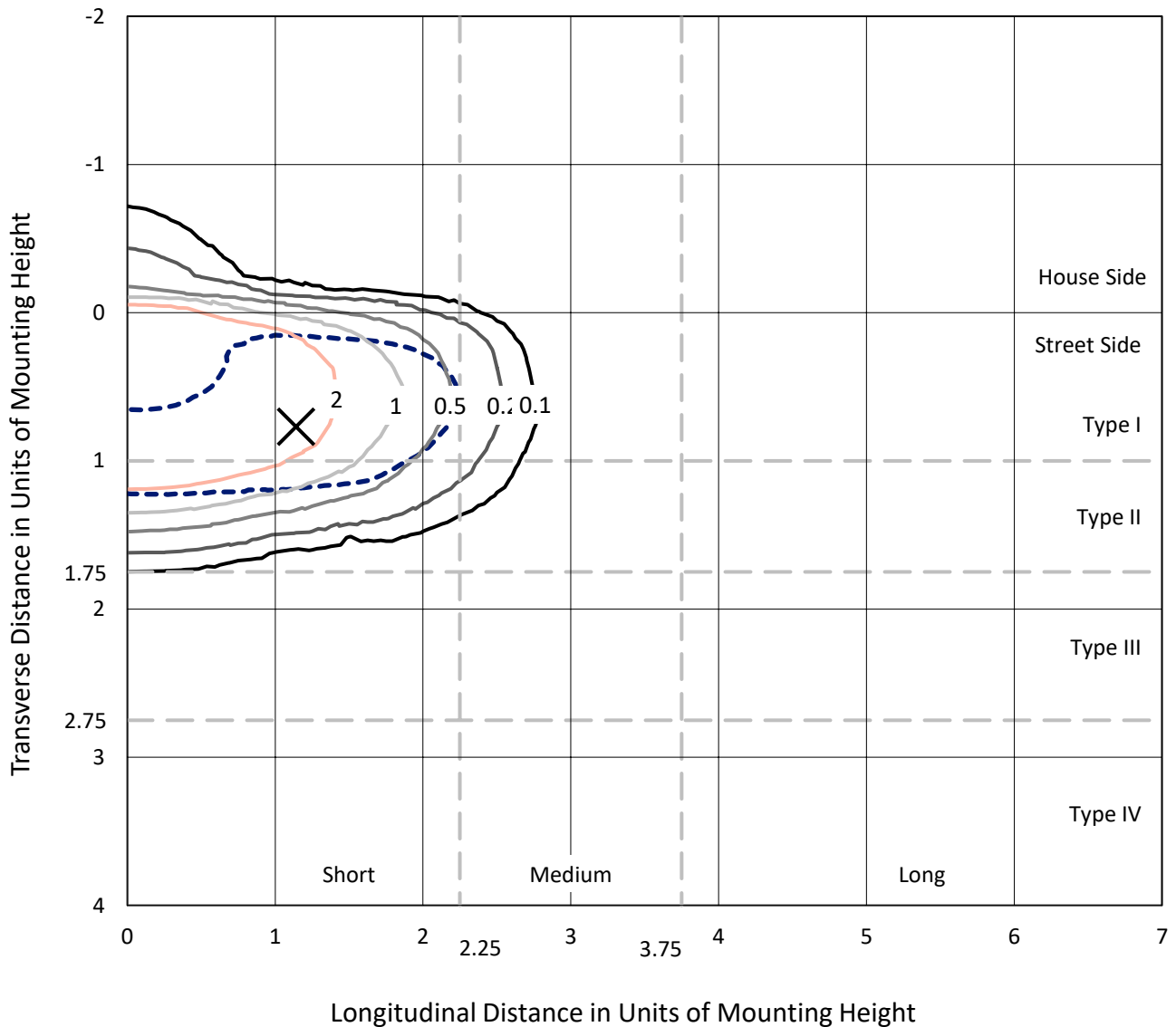
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

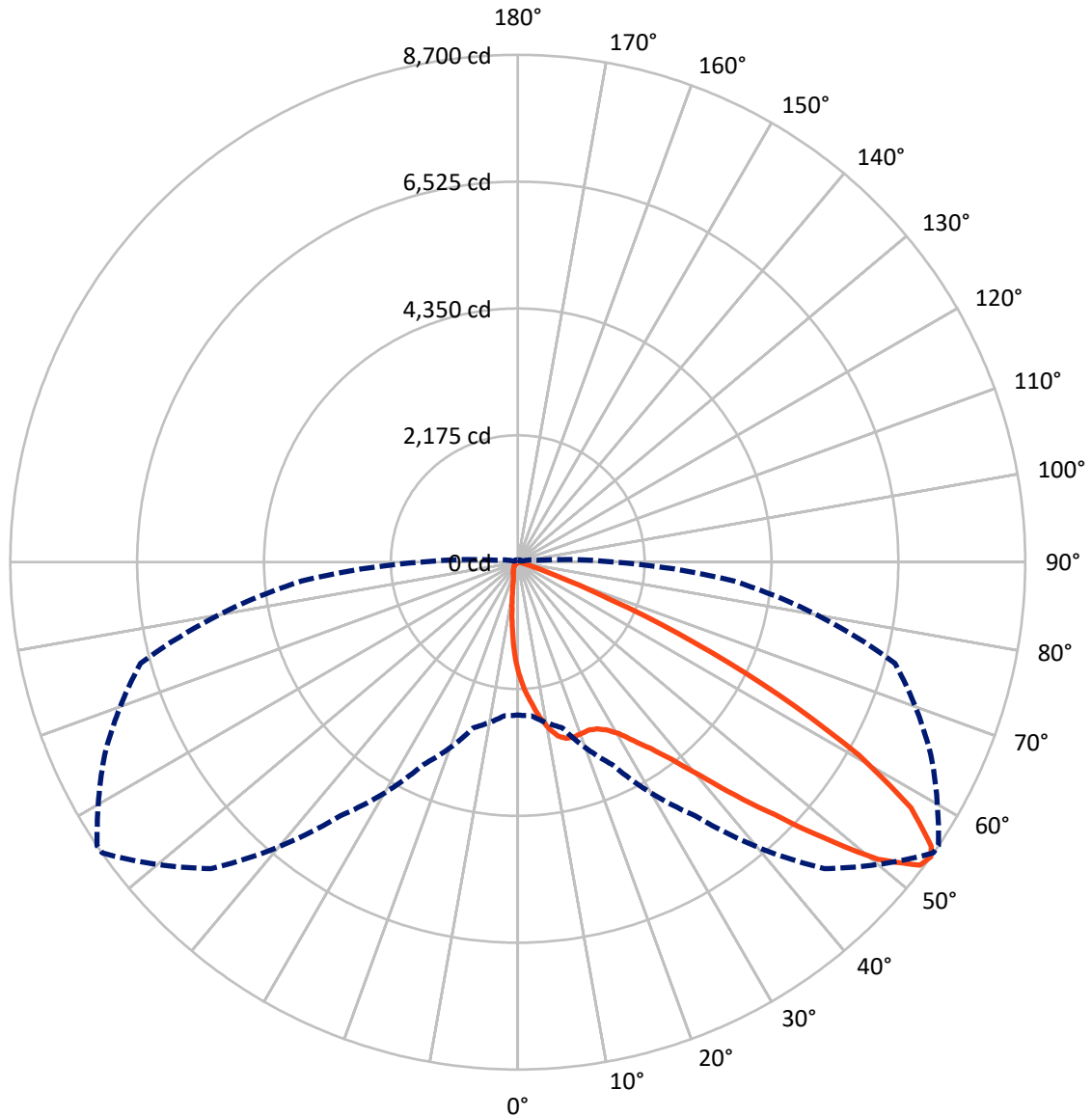
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	403.8	0.0	403.8
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	8134.3	0.0	8134.3
	% Fixture	95.3	0.0	95.3
Total	Lumens	8538.0	0.0	8538.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.6	2.0
10°-20°	453.1	5.3
20°-30°	784.8	9.2
30°-40°	1354.7	15.9
40°-50°	2305.7	27.0
50°-60°	2281.8	26.7
60°-70°	1041.5	12.2
70°-80°	133.8	1.6
80°-90°	15.1	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°	8538.0	100.0
0°-180°	8538.0	100.0

Coefficient of Utilization



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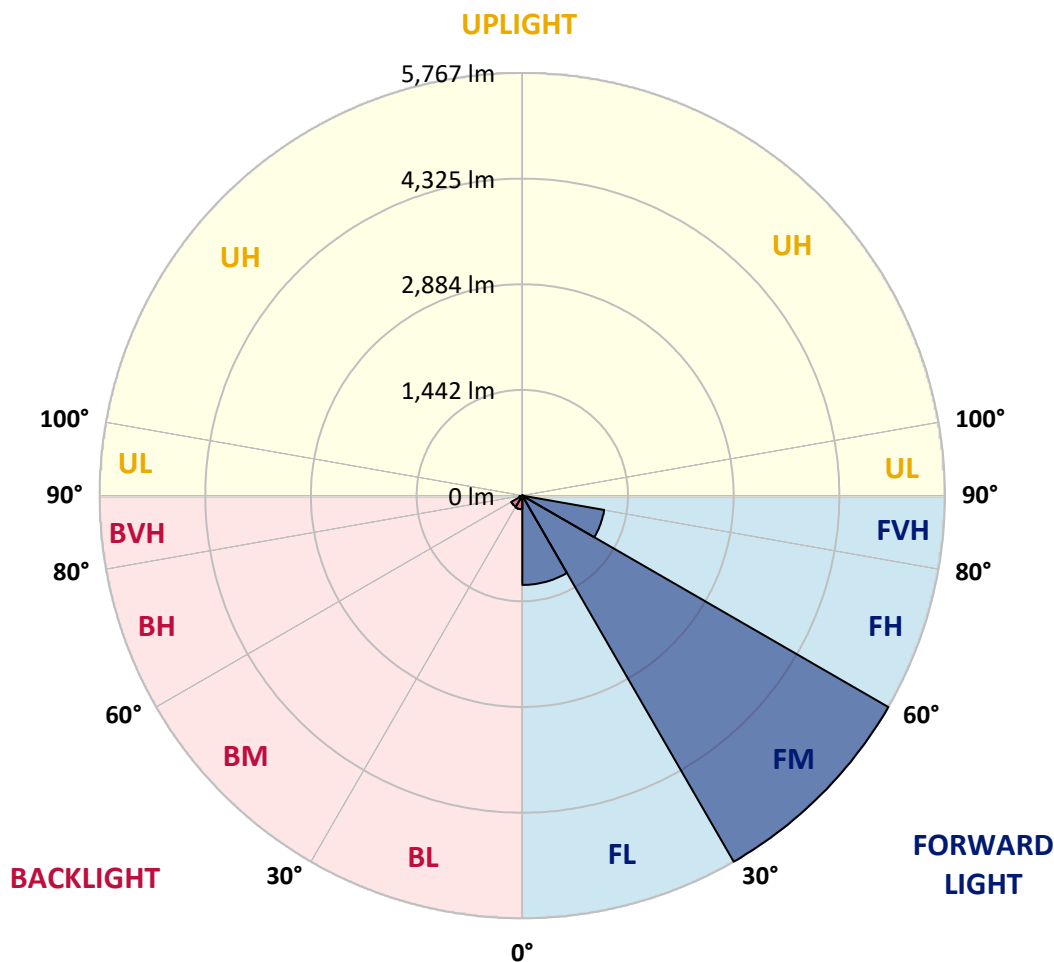
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1218.8	14.3			
FM (30°-60°)	5767.2	67.5			
FH (60°-80°)	1134.8	13.3			G1/1800
FVH (80°-90°)	13.5	0.2			G1/100
BL (0°-30°)	186.7	2.2	B1/500		
BM (30°-60°)	175.0	2.0	B0/220		
BH (60°-80°)	40.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9
2.5°	2410.7	2394.0	2371.0	2353.1	2311.1	2250.6	2186.6	2186.6	2125.0	2039.2	1951.6
5°	2780.5	2769.6	2747.1	2701.0	2653.8	2569.1	2440.7	2418.2	2308.2	2152.7	1989.1
7.5°	2930.9	2936.1	2937.2	2925.1	2902.7	2819.1	2691.8	2676.3	2500.6	2292.1	2038.0
10°	2786.9	2812.2	2837.0	2887.1	2958.0	2978.1	2906.1	2890.0	2717.2	2433.2	2091.0
12.5°	2572.6	2586.4	2600.2	2679.2	2821.4	2984.5	3059.9	3059.3	2913.0	2573.7	2158.4
15°	2472.9	2485.0	2486.2	2521.3	2644.6	2881.9	3125.6	3134.2	3104.3	2747.1	2231.0
17.5°	2493.7	2503.5	2495.4	2504.0	2568.6	2769.0	3118.1	3146.9	3259.2	2913.6	2296.7
20°	2629.0	2648.1	2616.9	2592.8	2612.3	2739.1	3092.8	3133.1	3368.7	3076.1	2356.6
22.5°	2872.1	2882.5	2843.3	2777.1	2742.5	2801.9	3085.8	3125.6	3462.0	3209.1	2391.1
25°	3142.3	3138.8	3095.6	3021.3	2948.7	2928.6	3131.4	3167.1	3539.2	3328.9	2401.5
27.5°	3412.5	3422.8	3350.2	3258.1	3171.1	3118.7	3233.3	3259.8	3626.2	3465.5	2414.2
30°	3726.4	3709.7	3638.3	3532.9	3433.2	3360.0	3397.5	3405.0	3746.0	3646.3	2447.6
32.5°	4134.8	4088.7	4008.7	3824.3	3752.9	3629.0	3638.3	3647.5	3891.7	3825.5	2487.9
35°	4689.0	4686.7	4530.0	4281.7	4107.7	3953.9	3913.6	3921.1	4112.3	4091.6	2577.2
37.5°	5356.0	5365.2	5186.7	4936.7	4616.4	4372.1	4289.2	4290.3	4447.6	4459.1	2713.1
40°	5899.2	5923.4	5816.8	5648.1	5331.8	4949.9	4810.5	4797.8	4918.8	4904.4	2907.3
42.5°	6133.1	6155.6	6195.3	6254.1	6080.1	5765.0	5436.1	5453.4	5490.2	5389.4	3125.0
45°	6018.5	6054.2	6210.3	6573.2	6736.8	6630.8	6238.5	6178.0	6021.9	5916.5	3343.9
47.5°	5540.9	5627.9	5888.9	6493.1	7065.7	7424.0	7144.0	7064.0	6554.2	6301.3	3483.3
50°	4755.8	4761.0	5124.4	5896.9	6895.2	7924.6	8068.6	8008.7	7050.1	6517.3	3553.6
52.5°	3447.6	3561.1	3894.0	4788.6	6156.7	7848.5	8657.9	8633.1	7561.7	6627.9	3655.0
54°	2621.0	2642.9	2939.0	3826.6	5308.2	7430.9	8694.2	8699.9	7815.7	6694.7	3714.9
55°	2148.6	2096.2	2407.3	3259.8	4729.3	7061.7	8575.5	8603.2	7929.8	6729.3	3759.2
57.5°	1018.4	1019.0	1256.9	1719.5	2962.0	5483.3	7850.3	7948.2	7942.4	6788.6	3895.8
60°	515.6	519.0	571.4	793.8	1463.1	3645.2	6490.8	6724.1	7331.3	6797.3	3940.7
62.5°	360.6	356.6	347.9	381.9	615.8	1852.5	4832.4	5035.2	6228.7	6468.3	3797.8
65°	308.8	300.1	275.9	270.7	311.1	737.9	3009.8	3340.5	4755.8	5600.8	3391.1
67.5°	263.8	260.4	238.5	225.2	220.0	321.4	1553.0	1727.0	3250.6	4025.9	2568.6
70°	224.1	222.4	209.1	192.4	178.0	192.4	576.0	713.7	1811.6	2167.6	1212.0
72.5°	182.0	183.8	186.1	164.7	149.8	136.5	246.0	286.3	758.1	774.8	424.0
75°	159.6	157.8	157.8	143.4	125.0	101.4	135.4	145.7	232.1	215.4	98.5
77.5°	112.3	108.3	126.7	118.1	104.3	72.0	77.2	81.8	96.2	82.4	46.1
80°	77.8	77.8	81.2	106.0	93.9	52.4	47.2	50.7	57.0	49.0	26.5
82.5°	43.8	44.9	53.0	56.5	54.7	35.1	31.1	31.7	38.0	33.4	16.7
85°	5.2	8.6	30.5	30.0	22.5	15.6	17.3	17.9	23.6	20.7	9.8
87.5°	0.6	1.2	6.3	8.1	5.8	6.3	6.3	6.3	8.1	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9
2.5°	1904.4	1860.6	1756.3	1635.4	1558.2	1432.6	1326.6	1250.0	1231.0	1194.1	1205.1
5°	1902.1	1811.1	1598.5	1373.9	1134.2	955.6	822.6	717.7	671.7	641.1	619.8
7.5°	1903.2	1761.0	1419.9	1062.2	775.9	600.8	477.5	413.6	371.0	353.1	355.4
10°	1906.7	1704.5	1212.6	786.9	523.6	388.3	312.8	282.3	267.9	265.6	265.0
12.5°	1914.8	1642.9	1014.4	584.1	366.4	282.3	253.5	243.1	238.5	238.5	236.8
15°	1923.4	1574.9	849.7	434.3	282.3	242.5	229.3	224.1	221.2	221.2	220.6
17.5°	1923.4	1496.6	695.9	337.0	243.1	222.9	212.6	205.6	203.3	203.3	202.8
20°	1911.3	1405.5	559.3	271.3	220.6	204.5	194.1	186.6	183.8	182.6	182.0
22.5°	1869.2	1284.0	445.3	233.3	202.2	188.4	175.1	166.5	164.2	163.0	163.6
25°	1794.4	1146.9	352.5	205.1	185.5	168.8	157.3	150.9	148.6	148.6	149.2
27.5°	1717.2	1003.5	279.4	183.8	165.3	150.3	141.1	137.1	136.5	138.2	138.8
30°	1645.7	859.5	226.4	166.5	147.5	134.8	128.5	127.3	127.3	127.9	128.5
32.5°	1566.3	733.3	189.5	151.5	133.1	122.1	118.7	118.7	119.8	119.8	121.0
35°	1516.1	625.0	166.5	137.1	122.1	112.9	110.6	111.2	112.9	115.2	116.4
37.5°	1489.1	538.6	151.5	125.6	111.8	105.4	103.1	104.3	108.3	112.3	112.9
40°	1491.4	473.5	139.4	115.8	103.7	96.8	95.0	98.5	102.5	106.6	107.1
42.5°	1516.7	425.1	127.9	104.3	96.8	87.0	86.4	89.9	91.6	95.6	96.2
45°	1546.7	390.0	115.8	92.2	84.1	75.5	76.0	78.9	81.2	87.6	88.7
47.5°	1555.9	365.8	102.0	78.3	69.1	66.2	66.8	68.5	73.2	78.9	79.5
50°	1566.3	350.8	88.7	66.2	58.8	58.2	58.8	59.9	62.8	65.1	64.5
52.5°	1610.6	350.2	77.8	57.6	50.1	51.3	51.8	51.3	49.0	45.5	44.4
54°	1652.1	352.0	72.6	53.6	46.1	47.8	47.2	44.4	38.6	35.1	33.4
55°	1685.5	353.7	69.7	50.7	43.8	44.4	44.9	39.2	31.7	28.2	27.1
57.5°	1751.2	349.7	62.8	44.4	38.6	36.3	35.7	25.9	17.3	15.0	13.8
60°	1718.3	315.7	57.0	38.0	32.8	29.4	24.2	14.4	8.6	6.3	6.3
62.5°	1589.3	267.9	50.7	31.1	27.1	22.5	12.7	8.1	4.0	2.3	1.7
65°	1421.7	225.2	45.5	24.8	21.3	14.4	6.9	5.2	1.7	0.0	0.0
67.5°	1057.0	167.1	38.6	19.6	16.1	9.2	4.6	2.9	0.6	0.0	0.0
70°	489.6	102.0	32.8	15.0	11.5	6.9	3.5	1.7	0.0	0.0	0.0
72.5°	140.6	63.9	27.1	10.9	8.1	5.8	2.9	1.2	0.6	0.0	0.0
75°	49.0	51.3	20.2	8.1	6.3	4.0	2.3	1.2	0.6	0.0	0.0
77.5°	29.4	41.5	12.7	6.9	5.2	3.5	2.3	1.2	0.6	0.6	0.0
80°	16.7	27.6	8.1	5.8	4.6	2.9	1.7	1.2	0.6	0.6	0.0
82.5°	9.2	13.2	6.3	5.2	4.0	2.9	1.7	1.2	0.6	0.6	0.6
85°	7.5	6.9	5.2	4.6	3.5	2.3	1.7	0.6	0.0	0.0	0.0
87.5°	5.8	4.6	4.6	4.6	3.5	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)