

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: P648254

Luminaire Tested: **GALN-SA2B-835-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648254
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-835-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 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: 7340.7 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

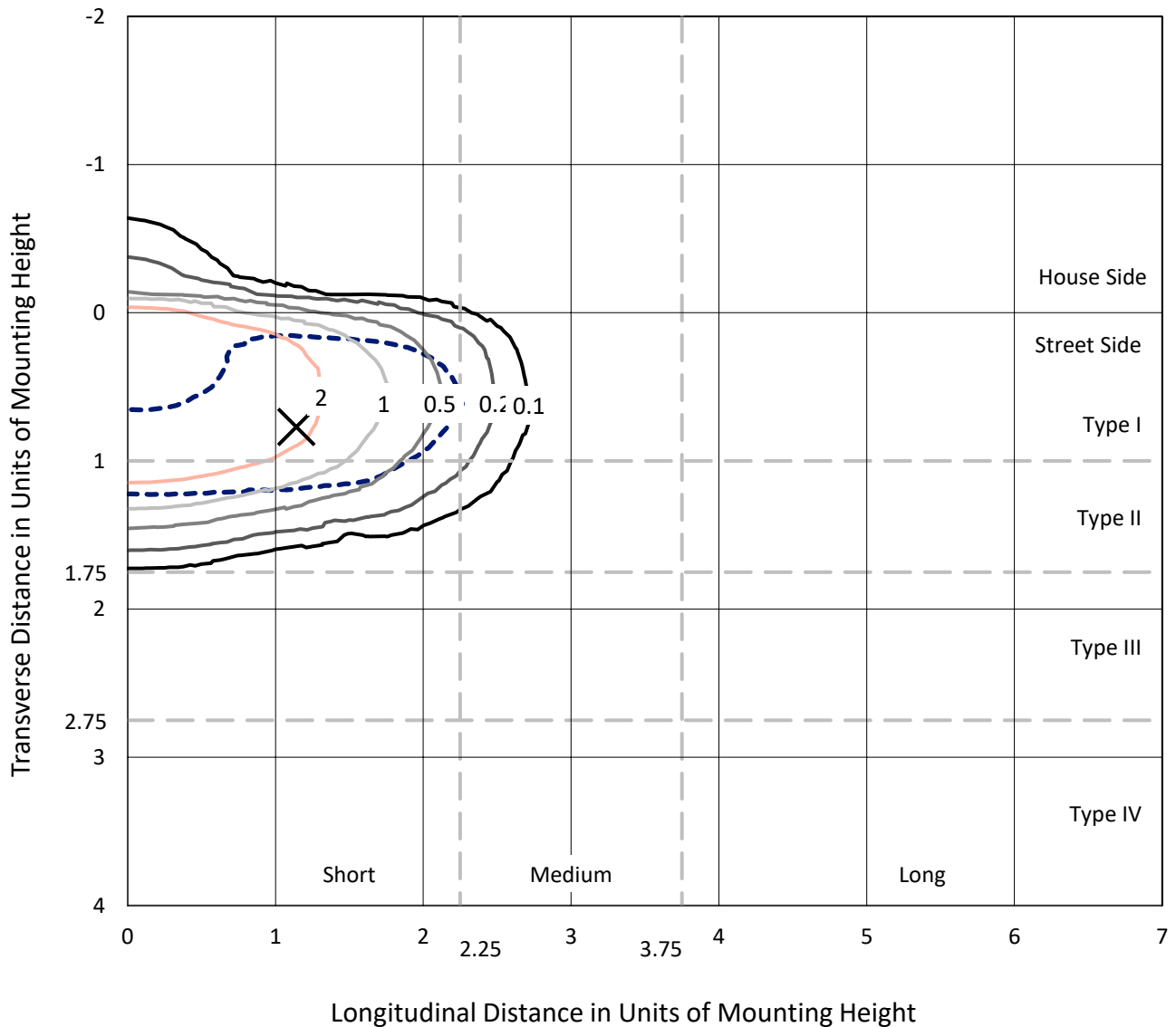
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

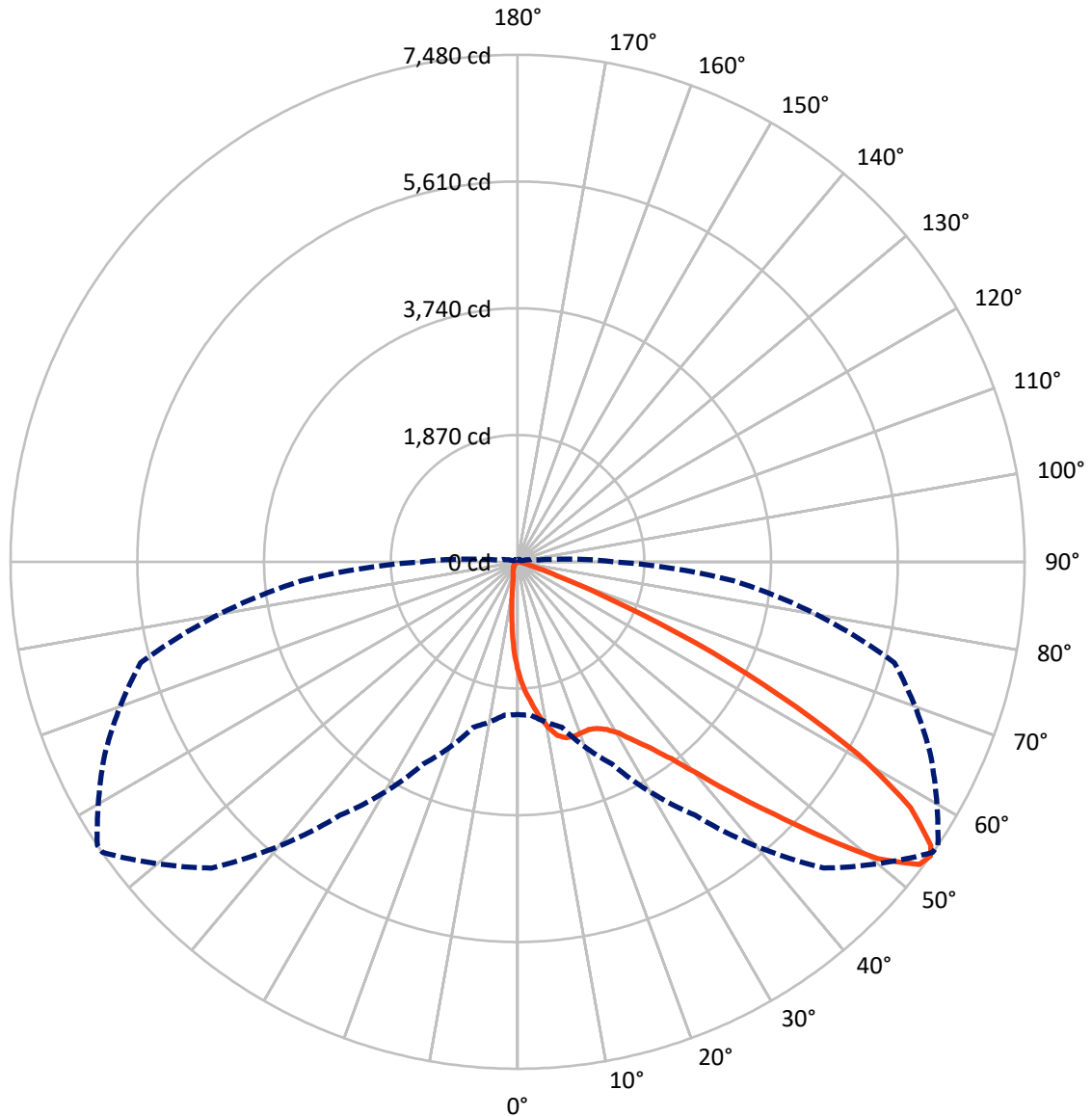
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	347.1	0.0	347.1
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	6993.5	0.0	6993.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	7340.7	0.0	7340.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	2.0
10°-20°	389.6	5.3
20°-30°	674.7	9.2
30°-40°	1164.7	15.9
40°-50°	1982.4	27.0
50°-60°	1961.8	26.7
60°-70°	895.4	12.2
70°-80°	115.0	1.6
80°-90°	13.0	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°	7340.7	100.0
0°-180°	7340.7	100.0

Coefficient of Utilization



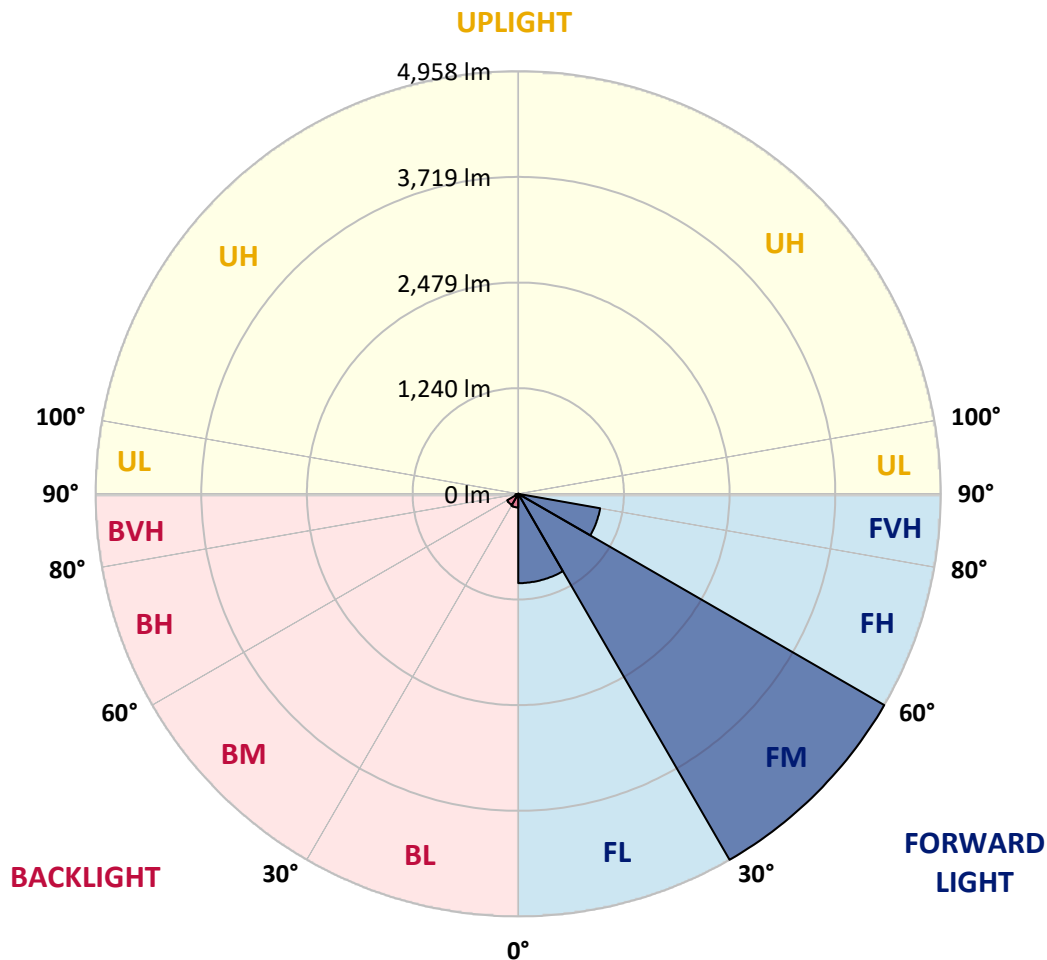
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1047.9	14.3			
FM (30°-60°)	4958.4	67.5			
FH (60°-80°)	975.6	13.3			G1/1800
FVH (80°-90°)	11.6	0.2			G1/100
BL (0°-30°)	160.5	2.2	B1/500		
BM (30°-60°)	150.4	2.0	B0/220		
BH (60°-80°)	34.8	0.5	B0/110		G0/110
BVH (80°-90°)	1.4	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°	1630.9	1630.9	1630.9	1630.9	1630.9	1630.9	1630.9	1630.9	1630.9	1630.9	1630.9
2.5°	2072.7	2058.3	2038.5	2023.1	1986.9	1934.9	1880.0	1880.0	1827.0	1753.2	1677.9
5°	2390.6	2381.2	2361.8	2322.2	2281.7	2208.8	2098.4	2079.1	1984.5	1850.8	1710.2
7.5°	2519.9	2524.3	2525.3	2514.9	2495.6	2423.8	2314.3	2300.9	2149.9	1970.7	1752.2
10°	2396.1	2417.8	2439.1	2482.2	2543.1	2560.5	2498.6	2484.7	2336.1	2091.9	1797.8
12.5°	2211.8	2223.7	2235.6	2303.4	2425.7	2565.9	2630.8	2630.3	2504.5	2212.8	1855.7
15°	2126.2	2136.5	2137.5	2167.7	2273.8	2477.7	2687.3	2694.7	2668.9	2361.8	1918.1
17.5°	2143.9	2152.4	2145.4	2152.9	2208.4	2380.7	2680.8	2705.6	2802.1	2505.0	1974.6
20°	2260.4	2276.7	2250.0	2229.1	2246.0	2355.0	2659.0	2693.7	2896.2	2644.7	2026.1
22.5°	2469.3	2478.3	2444.6	2387.6	2357.9	2408.9	2653.1	2687.3	2976.5	2759.1	2055.8
25°	2701.6	2698.6	2661.5	2597.6	2535.2	2517.9	2692.2	2722.9	3042.8	2862.1	2064.7
27.5°	2933.9	2942.8	2880.4	2801.2	2726.4	2681.3	2779.9	2802.7	3117.7	2979.5	2075.6
30°	3203.8	3189.5	3128.0	3037.4	2951.8	2888.8	2921.0	2927.5	3220.6	3135.0	2104.3
32.5°	3555.0	3515.4	3446.5	3288.0	3226.6	3120.1	3128.0	3136.0	3345.9	3289.0	2139.0
35°	4031.4	4029.4	3894.7	3681.2	3531.6	3399.4	3364.8	3371.2	3535.6	3517.8	2215.7
37.5°	4604.9	4612.8	4459.3	4244.3	3968.9	3759.0	3687.7	3688.6	3823.9	3833.8	2332.6
40°	5071.9	5092.7	5001.1	4856.0	4584.1	4255.8	4135.9	4125.0	4229.0	4216.6	2499.6
42.5°	5273.0	5292.3	5326.4	5377.0	5227.4	4956.5	4673.7	4688.6	4720.3	4633.6	2686.8
45°	5174.5	5205.1	5339.4	5651.4	5792.0	5700.9	5363.6	5311.6	5177.4	5086.8	2874.9
47.5°	4763.9	4838.6	5063.0	5582.6	6074.8	6382.9	6142.2	6073.3	5635.0	5417.6	2994.8
50°	4088.8	4093.3	4405.8	5069.9	5928.2	6813.2	6937.1	6885.5	6061.4	5603.3	3055.3
52.5°	2964.1	3061.7	3348.0	4117.1	5293.3	6747.8	7443.7	7422.4	6501.2	5698.4	3142.4
54°	2253.4	2272.3	2526.8	3290.0	4563.8	6388.8	7474.9	7479.8	6719.6	5755.8	3193.9
55°	1847.3	1802.2	2069.7	2802.7	4066.0	6071.3	7372.9	7396.6	6817.7	5785.6	3232.1
57.5°	875.6	876.1	1080.6	1478.3	2546.6	4714.4	6749.3	6833.6	6828.5	5836.6	3349.4
60°	443.3	446.2	491.3	682.5	1258.0	3134.0	5580.5	5781.1	6303.2	5844.0	3388.0
62.5°	310.1	306.5	299.1	328.4	529.5	1592.8	4154.7	4329.1	5355.2	5561.3	3265.2
65°	265.4	258.0	237.2	232.8	267.5	634.4	2587.7	2872.0	4088.8	4815.4	2915.6
67.5°	226.8	223.9	205.1	193.6	189.2	276.3	1335.2	1484.8	2794.8	3461.3	2208.4
70°	192.6	191.1	179.8	165.4	153.0	165.4	495.2	613.6	1557.5	1863.6	1042.0
72.5°	156.5	158.0	160.0	141.6	128.8	117.4	211.5	246.2	651.8	666.1	364.5
75°	137.2	135.7	135.7	123.3	107.5	87.1	116.4	125.3	199.6	185.3	84.7
77.5°	96.5	93.1	109.0	101.6	89.7	61.9	66.4	70.3	82.7	70.8	39.6
80°	66.9	66.9	69.8	91.1	80.7	45.1	40.6	43.6	49.0	42.1	22.8
82.5°	37.7	38.6	45.6	48.5	47.1	30.2	26.8	27.2	32.7	28.7	14.3
85°	4.5	7.4	26.2	25.8	19.3	13.4	14.9	15.3	20.3	17.9	8.5
87.5°	0.5	1.0	5.5	7.0	4.9	5.5	5.5	5.5	7.0	7.9	6.0
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°	1630.9	1630.9	1630.9	1630.9	1630.9	1630.9	1630.9	1630.9	1630.9	1630.9	1630.9
2.5°	1637.3	1599.7	1510.0	1406.0	1339.6	1231.7	1140.6	1074.7	1058.4	1026.7	1036.1
5°	1635.3	1557.1	1374.3	1181.2	975.1	821.6	707.2	617.1	577.5	551.2	532.9
7.5°	1636.3	1514.0	1220.8	913.2	667.1	516.5	410.6	355.6	318.9	303.6	305.6
10°	1639.3	1465.5	1042.5	676.5	450.2	333.8	269.0	242.7	230.3	228.3	227.9
12.5°	1646.3	1412.5	872.2	502.2	315.0	242.7	217.9	209.0	205.1	205.1	203.6
15°	1653.7	1354.0	730.5	373.4	242.7	208.5	197.1	192.6	190.2	190.2	189.7
17.5°	1653.7	1286.7	598.3	289.7	209.0	191.7	182.8	176.8	174.8	174.8	174.3
20°	1643.3	1208.4	480.9	233.3	189.7	175.8	166.9	160.4	158.0	157.0	156.5
22.5°	1607.1	1104.0	382.8	200.6	173.8	161.9	150.6	143.1	141.2	140.2	140.6
25°	1542.7	986.0	303.1	176.3	159.5	145.1	135.2	129.7	127.8	127.8	128.3
27.5°	1476.3	862.7	240.2	158.0	142.1	129.3	121.4	117.8	117.4	118.9	119.3
30°	1415.0	738.9	194.7	143.1	126.8	115.9	110.4	109.5	109.5	109.9	110.4
32.5°	1346.6	630.5	162.9	130.3	114.4	105.0	102.0	102.0	103.0	103.0	104.0
35°	1303.5	537.4	143.1	117.8	105.0	97.1	95.1	95.6	97.1	99.0	100.1
37.5°	1280.2	463.1	130.3	108.0	96.1	90.6	88.6	89.7	93.1	96.5	97.1
40°	1282.2	407.1	119.9	99.5	89.2	83.2	81.7	84.7	88.2	91.6	92.1
42.5°	1304.0	365.5	109.9	89.7	83.2	74.8	74.3	77.3	78.8	82.2	82.7
45°	1329.8	335.3	99.5	79.2	72.3	64.9	65.4	67.9	69.8	75.2	76.3
47.5°	1337.7	314.5	87.7	67.3	59.4	56.9	57.5	59.0	62.9	67.9	68.4
50°	1346.6	301.6	76.3	56.9	50.5	50.0	50.5	51.5	53.9	56.0	55.4
52.5°	1384.7	301.1	66.9	49.6	43.1	44.1	44.6	44.1	42.1	39.2	38.1
54°	1420.4	302.6	62.4	46.0	39.6	41.1	40.6	38.1	33.2	30.2	28.7
55°	1449.1	304.1	59.9	43.6	37.7	38.1	38.6	33.7	27.2	24.3	23.3
57.5°	1505.6	300.6	53.9	38.1	33.2	31.2	30.7	22.3	14.9	12.8	11.9
60°	1477.4	271.4	49.0	32.7	28.3	25.3	20.8	12.4	7.4	5.5	5.5
62.5°	1366.4	230.3	43.6	26.8	23.3	19.3	10.9	7.0	3.4	2.0	1.5
65°	1222.3	193.6	39.2	21.3	18.3	12.4	6.0	4.5	1.5	0.0	0.0
67.5°	908.8	143.6	33.2	16.8	13.9	7.9	4.0	2.5	0.5	0.0	0.0
70°	420.9	87.7	28.3	12.8	9.9	6.0	3.0	1.5	0.0	0.0	0.0
72.5°	120.8	55.0	23.3	9.4	7.0	4.9	2.5	1.0	0.5	0.0	0.0
75°	42.1	44.1	17.3	7.0	5.5	3.4	2.0	1.0	0.5	0.0	0.0
77.5°	25.3	35.6	10.9	6.0	4.5	3.0	2.0	1.0	0.5	0.5	0.0
80°	14.3	23.8	7.0	4.9	4.0	2.5	1.5	1.0	0.5	0.5	0.0
82.5°	7.9	11.4	5.5	4.5	3.4	2.5	1.5	1.0	0.5	0.5	0.5
85°	6.4	6.0	4.5	4.0	3.0	2.0	1.5	0.5	0.0	0.0	0.0
87.5°	4.9	4.0	4.0	4.0	3.0	2.0	1.5	0.5	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)