

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: P458859

Luminaire Tested: **GALN-SA3D-735-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15562 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

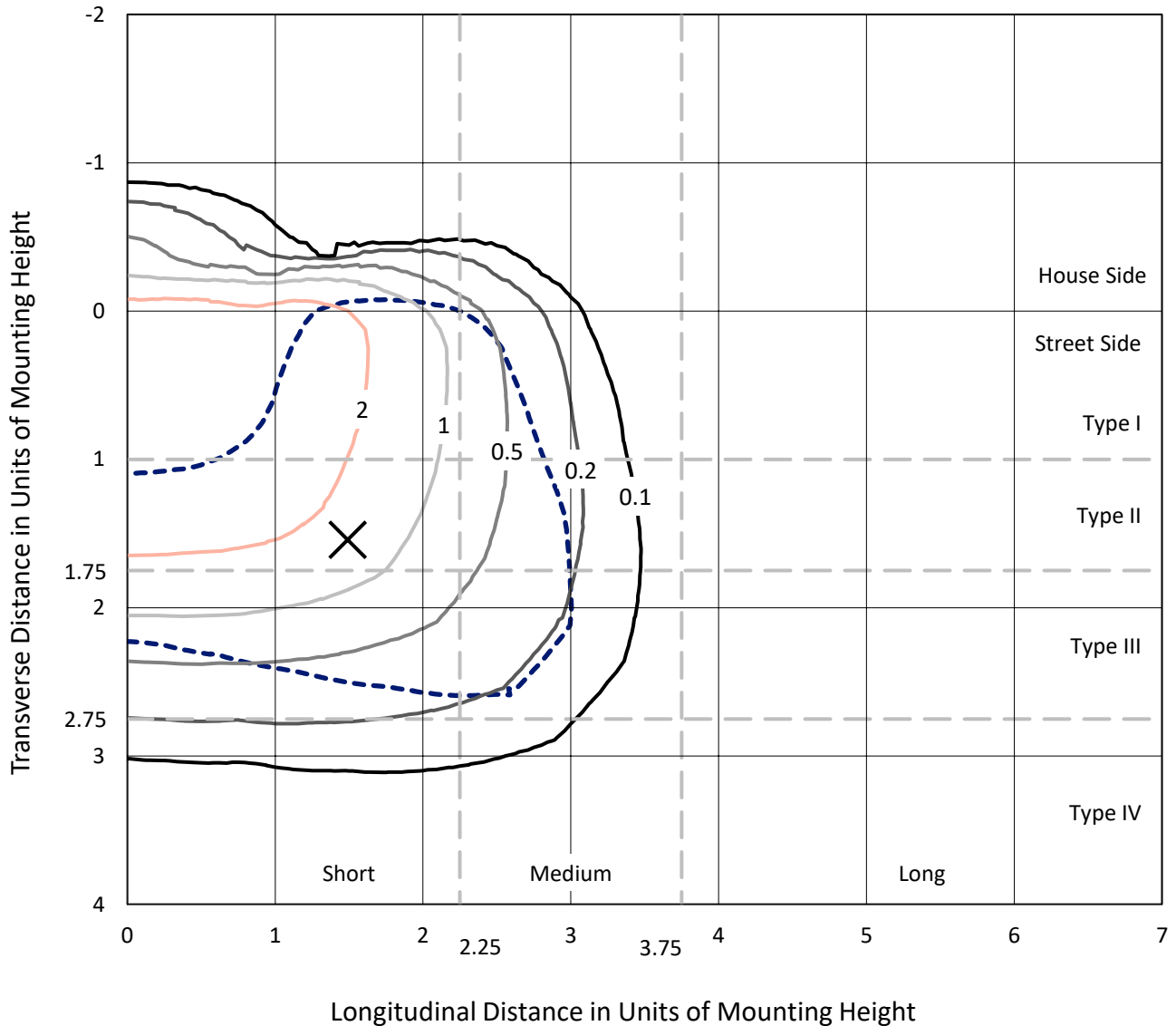
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

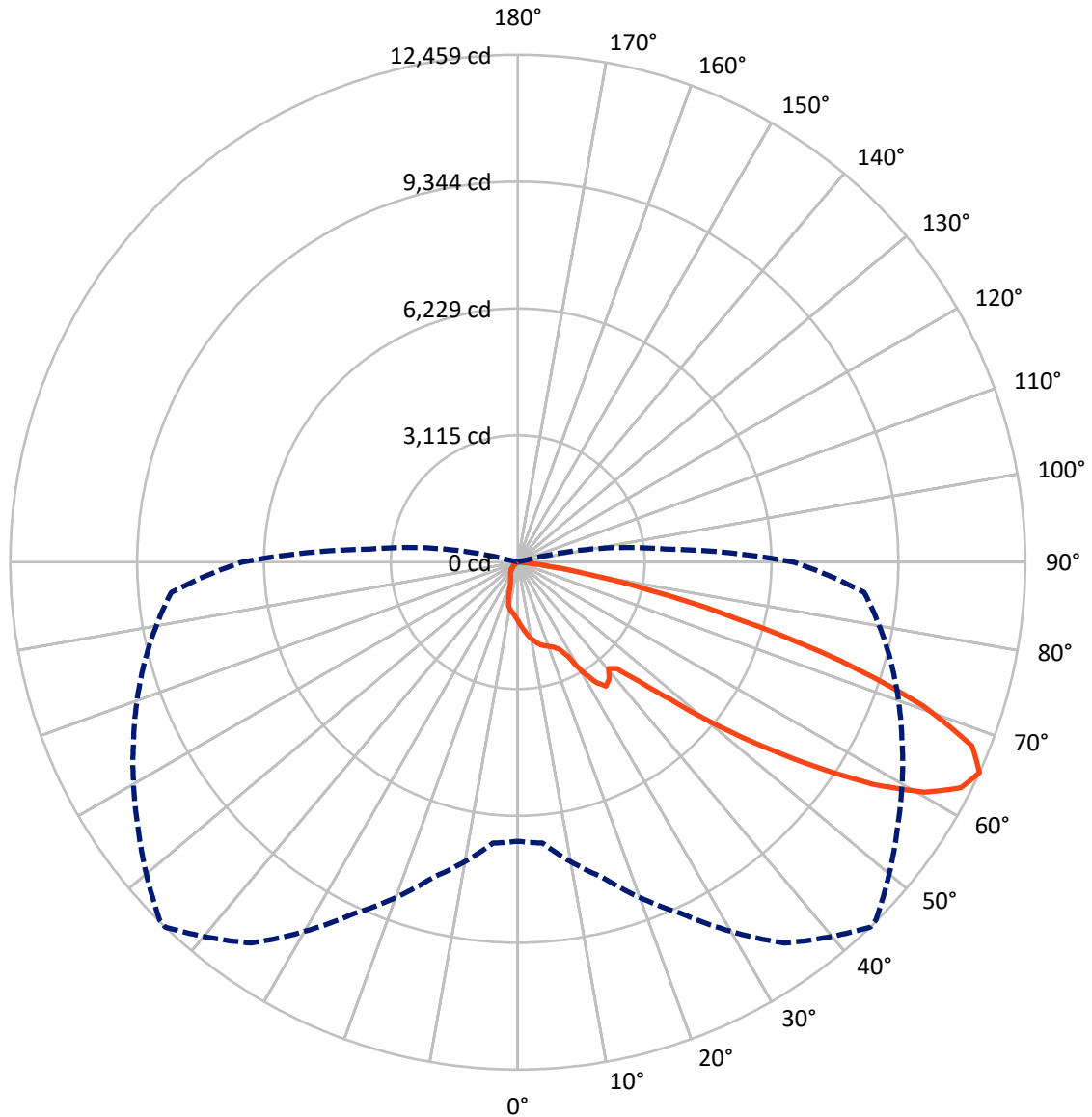
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1433.8	0.0	1433.8
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	14128.2	0.0	14128.2
	% Fixture	90.8	0.0	90.8
Total	Lumens	15562.0	0.0	15562.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	0.9
10°-20°	433.6	2.8
20°-30°	735.2	4.7
30°-40°	1222.3	7.9
40°-50°	2134.2	13.7
50°-60°	4169.5	26.8
60°-70°	4837.5	31.1
70°-80°	1761.6	11.3
80°-90°	124.1	0.8
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°	15562.0	100.0
0°-180°	15562.0	100.0

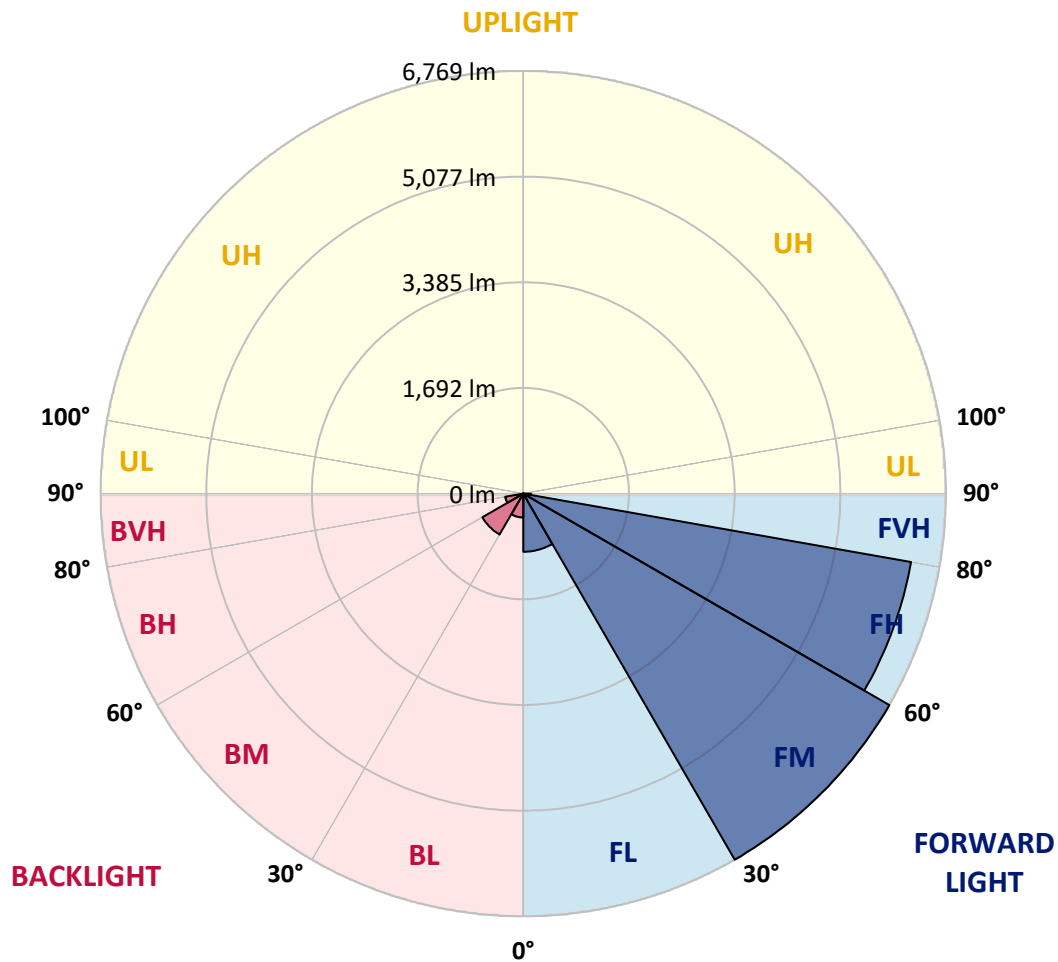


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	930.7	6.0			
FM (30°-60°)	6769.5	43.5			
FH (60°-80°)	6305.5	40.5			G3/7500
FVH (80°-90°)	122.4	0.8			G2/225
BL (0°-30°)	382.0	2.5	B1/500		
BM (30°-60°)	756.5	4.9	B1/1000		
BH (60°-80°)	293.6	1.9	B1/500		G1/500
BVH (80°-90°)	1.7	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1448.4	1448.4	1448.4	1448.4	1448.4	1448.4	1448.4	1448.4	1448.4	1448.4	1448.4
2.5°	1630.3	1623.2	1619.6	1600.6	1586.3	1568.5	1568.5	1545.9	1519.7	1491.2	1465.0
5°	1812.2	1800.3	1784.9	1768.2	1734.9	1687.4	1687.4	1639.8	1585.1	1536.4	1482.8
7.5°	1987.0	1976.3	1950.2	1918.1	1863.4	1813.4	1809.9	1740.9	1675.5	1601.8	1525.7
10°	2140.4	2132.1	2109.5	2047.7	1990.6	1925.2	1924.0	1846.7	1770.6	1680.2	1586.3
12.5°	2247.5	2248.6	2218.9	2159.5	2085.7	2023.9	2019.1	1943.0	1863.4	1765.9	1650.5
15°	2323.6	2323.6	2292.6	2226.0	2159.5	2104.8	2100.0	2033.4	1951.4	1845.5	1720.7
17.5°	2345.0	2352.1	2318.8	2259.3	2205.8	2158.3	2157.1	2101.2	2035.8	1933.5	1792.0
20°	2336.6	2343.8	2317.6	2271.2	2234.4	2207.0	2203.5	2180.9	2120.2	2023.9	1868.1
22.5°	2318.8	2325.9	2306.9	2279.6	2261.7	2270.0	2264.1	2283.1	2251.0	2134.5	1958.5
25°	2322.4	2329.5	2315.2	2299.8	2315.2	2366.4	2381.8	2463.9	2435.3	2274.8	2056.0
27.5°	2434.1	2448.4	2428.2	2435.3	2490.0	2608.9	2638.7	2780.2	2654.1	2453.2	2208.2
30°	2682.7	2673.2	2635.1	2669.6	2859.9	3111.9	3103.6	3081.0	2883.6	2658.9	2389.0
32.5°	2908.6	2900.3	2897.9	3046.5	3391.4	3513.9	3507.9	3289.1	3089.4	2894.3	2567.3
35°	3000.2	2968.1	2960.9	3321.2	3898.0	3736.2	3699.4	3374.7	3339.1	3151.2	2749.3
37.5°	3276.0	3253.5	3142.9	3366.4	3695.8	3642.3	3613.8	3522.2	3605.4	3378.3	2955.0
40°	3844.5	3781.4	3681.5	3462.7	3409.2	3431.8	3460.4	3711.3	3920.6	3688.7	3229.7
42.5°	4550.8	4536.5	4351.0	3943.1	3542.4	3573.3	3610.2	4106.1	4373.6	4156.0	3678.0
45°	5398.6	5418.9	5151.3	4669.7	4144.1	4170.3	4223.8	4688.7	4987.2	4882.6	4383.1
47.5°	6169.2	6153.7	6063.4	5562.7	5077.6	5019.3	5106.1	5436.7	5836.2	5852.9	5258.3
50°	6944.5	7026.6	6892.2	6696.0	6335.7	6213.2	6181.1	6342.8	6951.6	6872.0	6309.5
52.5°	8058.7	8101.5	7849.4	7799.5	7881.5	7484.4	7452.3	7491.5	8036.1	7762.6	7096.7
55°	8759.1	8734.1	8640.2	9030.2	9354.9	8859.0	8818.6	8660.4	8936.3	8391.7	7854.2
57.5°	8980.3	9016.0	9234.8	9939.9	10708.1	10287.1	10213.4	9763.9	9585.6	8977.9	8551.0
60°	8881.6	8947.0	9419.1	10467.9	11533.4	11470.3	11407.3	10652.2	10051.7	9467.8	9039.8
62.5°	8178.8	8270.4	9025.5	10374.0	11812.8	12206.4	12127.9	11206.3	10362.1	9705.7	9125.4
65°	6854.1	6921.9	8006.4	9521.3	11415.6	12458.5	12430.0	11380.0	10410.8	9488.1	8539.1
67.5°	4886.1	5116.8	6121.6	8024.2	10240.8	12028.0	12076.8	11171.9	9953.0	8547.5	7071.7
70°	3071.5	3228.5	3949.1	5744.7	8209.7	10552.3	10712.9	10219.4	8637.8	6662.7	4733.9
72.5°	1465.0	1581.5	2095.2	3636.4	5794.6	8302.5	8429.7	8389.3	6679.3	4197.6	2442.5
75°	652.8	696.8	1000.1	1856.2	3741.0	5580.6	5910.0	5964.7	4173.8	2053.6	950.1
77.5°	333.0	334.1	468.5	899.0	1868.1	3329.6	3395.0	3586.4	2262.9	904.9	330.6
80°	177.2	189.1	248.5	424.5	969.1	1639.8	1631.5	1793.2	1003.6	443.5	110.6
82.5°	79.7	88.0	140.3	222.4	473.3	621.9	670.7	733.7	430.5	283.0	48.8
85°	23.8	28.5	69.0	111.8	171.2	179.6	201.0	259.2	243.8	201.0	25.0
87.5°	3.6	3.6	28.5	30.9	25.0	32.1	33.3	36.9	78.5	73.7	13.1
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°	1448.4	1448.4	1448.4	1448.4	1448.4	1448.4	1448.4	1448.4	1448.4	1448.4	1448.4
2.5°	1450.7	1442.4	1412.7	1387.7	1366.3	1353.2	1337.8	1328.3	1323.5	1319.9	1321.1
5°	1456.7	1436.5	1385.3	1344.9	1314.0	1280.7	1258.1	1245.0	1239.1	1229.6	1229.6
7.5°	1490.0	1457.9	1386.5	1324.7	1271.2	1226.0	1183.2	1167.7	1157.0	1154.6	1152.3
10°	1537.5	1497.1	1399.6	1314.0	1237.9	1176.0	1115.4	1061.9	1020.3	995.3	991.7
12.5°	1597.0	1538.7	1419.8	1306.9	1209.3	1099.9	939.4	831.2	758.7	736.1	739.6
15°	1651.7	1588.7	1440.0	1300.9	1157.0	912.1	730.1	606.5	569.6	566.0	567.2
17.5°	1717.1	1642.2	1463.8	1292.6	1013.1	696.8	542.2	508.9	516.1	528.0	526.8
20°	1784.9	1699.3	1492.4	1242.6	808.6	524.4	479.2	482.8	493.5	504.2	506.6
22.5°	1857.4	1764.7	1525.7	1122.5	617.2	456.6	454.2	459.0	469.7	481.6	484.0
25°	1957.3	1846.7	1550.6	965.6	467.3	422.1	426.9	435.2	444.7	457.8	460.2
27.5°	2085.7	1957.3	1563.7	761.0	404.3	391.2	392.4	404.3	416.2	428.1	428.1
30°	2252.2	2089.3	1537.5	575.5	373.4	361.5	356.7	363.9	379.3	391.2	392.4
32.5°	2400.8	2214.2	1468.6	440.0	350.8	334.1	322.3	323.4	329.4	336.5	337.7
35°	2549.5	2335.4	1350.8	369.8	327.0	308.0	290.1	280.6	275.9	272.3	275.9
37.5°	2739.8	2486.5	1193.9	336.5	306.8	283.0	258.0	237.8	221.2	210.5	212.9
40°	2984.7	2695.8	1008.4	315.1	287.8	259.2	225.9	199.8	171.2	161.7	157.0
42.5°	3389.0	3013.3	813.4	297.3	268.7	234.3	192.6	157.0	130.8	121.3	123.7
45°	4027.6	3414.0	626.7	278.3	249.7	206.9	161.7	123.7	102.3	97.5	99.9
47.5°	4874.2	3932.4	482.8	256.9	225.9	177.2	127.2	97.5	84.4	83.2	82.0
50°	5671.0	4415.2	403.1	233.1	197.4	147.5	104.6	82.0	73.7	72.5	72.5
52.5°	6391.6	4761.3	328.2	205.7	166.5	121.3	88.0	72.5	65.4	61.8	61.8
55°	7032.5	4987.2	266.4	172.4	130.8	96.3	76.1	65.4	57.1	52.3	51.1
57.5°	7516.5	5014.6	199.8	137.9	97.5	74.9	65.4	57.1	47.6	41.6	39.2
60°	7723.4	4777.9	147.5	104.6	72.5	59.5	52.3	46.4	35.7	29.7	28.5
62.5°	7515.3	4317.7	109.4	79.7	55.9	44.0	36.9	34.5	25.0	17.8	16.6
65°	6769.7	3653.0	86.8	60.6	41.6	32.1	23.8	22.6	15.5	8.3	7.1
67.5°	5423.6	2861.0	69.0	45.2	29.7	21.4	15.5	14.3	8.3	2.4	2.4
70°	3527.0	1828.9	55.9	33.3	19.0	14.3	9.5	7.1	4.8	1.2	0.0
72.5°	1744.5	855.0	45.2	26.2	13.1	7.1	3.6	2.4	3.6	0.0	0.0
75°	676.6	304.4	33.3	17.8	7.1	3.6	2.4	0.0	1.2	0.0	0.0
77.5°	224.7	101.1	20.2	9.5	4.8	2.4	0.0	0.0	0.0	0.0	0.0
80°	83.2	39.2	10.7	5.9	2.4	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	33.3	15.5	7.1	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.6	9.5	4.8	3.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.9	7.1	4.8	3.6	2.4	1.2	0.0	0.0	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)