

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: P452798

Luminaire Tested: **GALN-SA3D-730-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452798
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-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 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: 15214 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

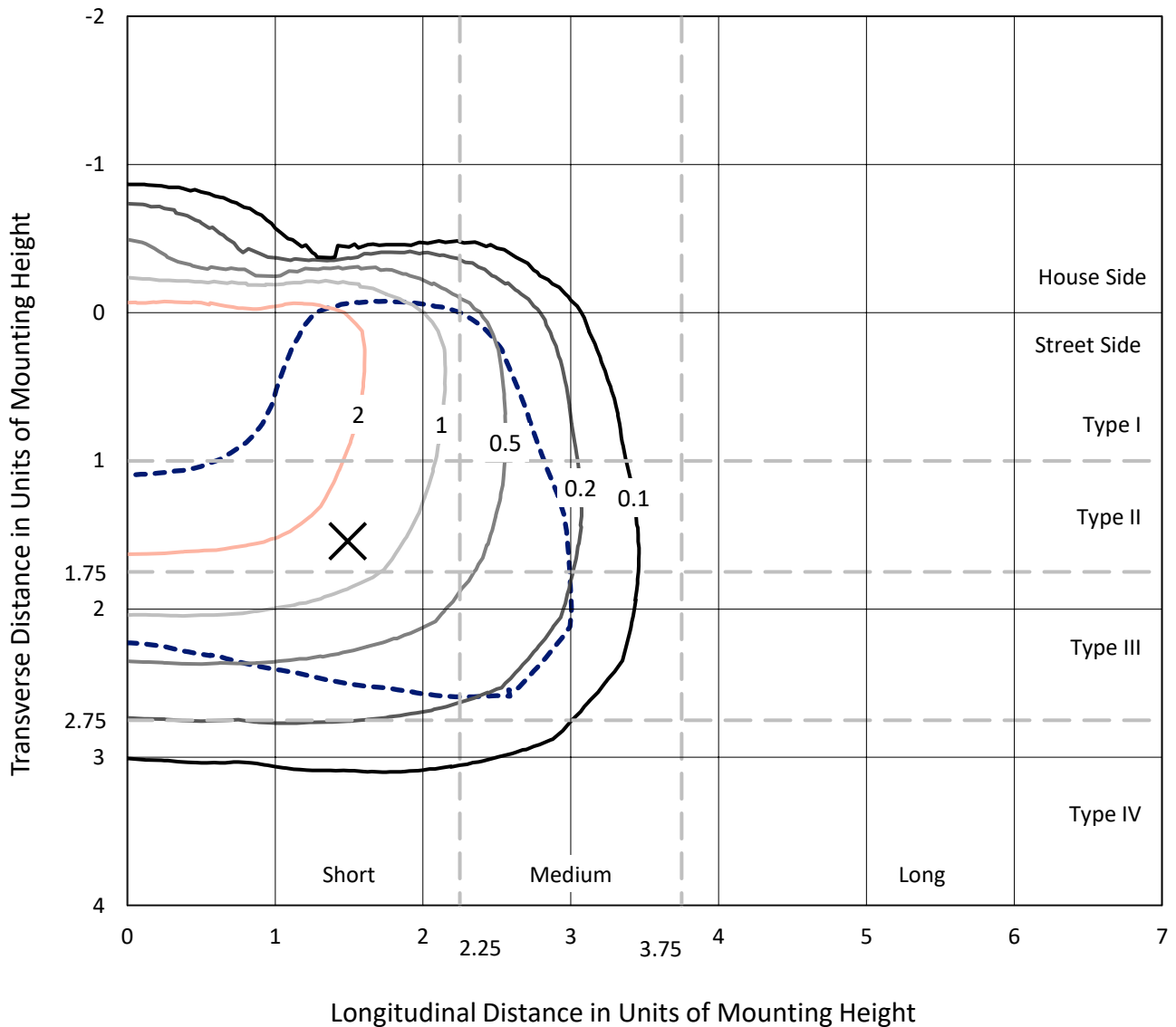
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

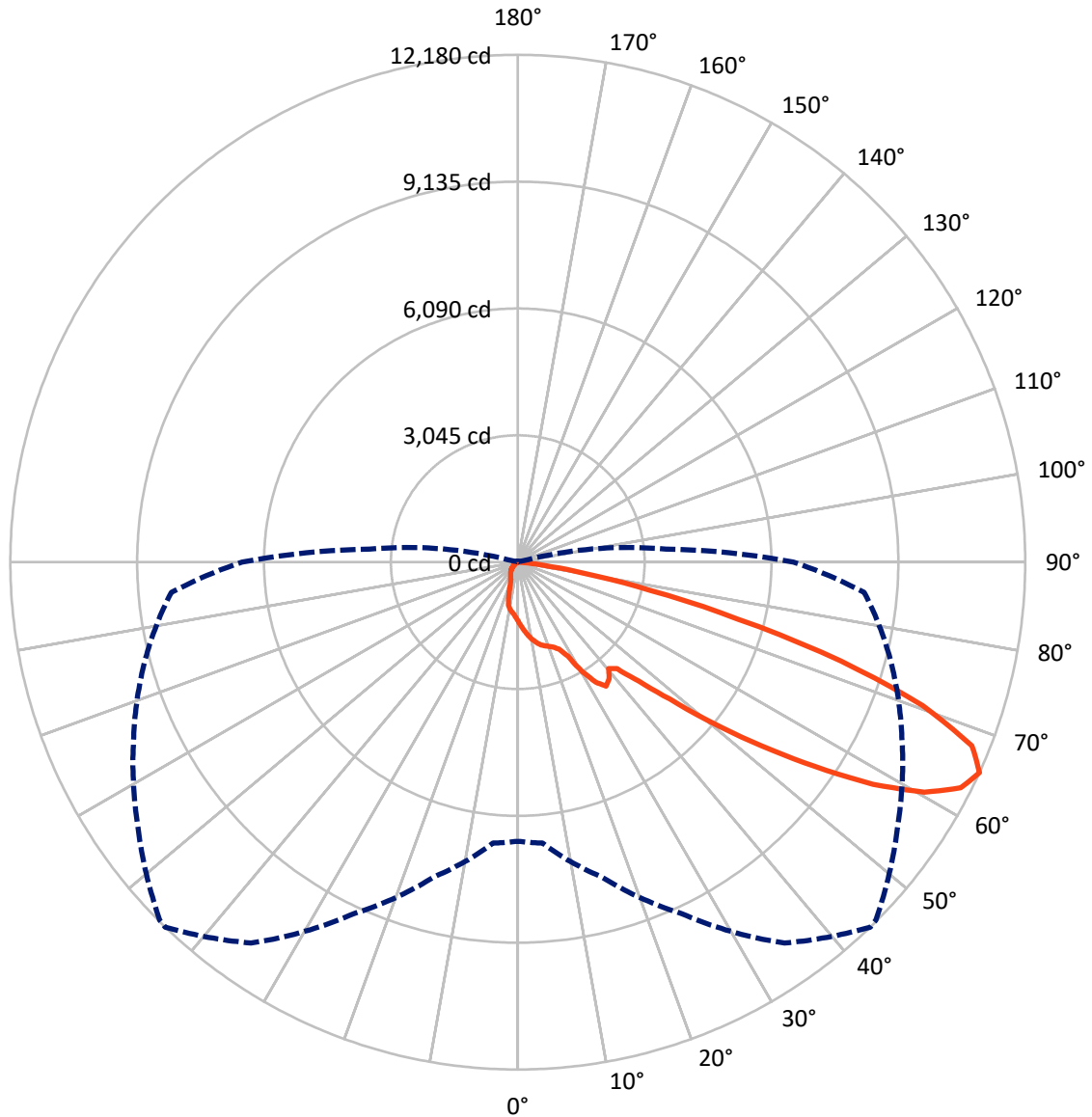
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	1401.7	0.0	1401.7
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	13812.3	0.0	13812.3
	% Fixture	90.8	0.0	90.8
Total	Lumens	15214.0	0.0	15214.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.8	0.9
10°-20°	423.9	2.8
20°-30°	718.7	4.7
30°-40°	1195.0	7.9
40°-50°	2086.5	13.7
50°-60°	4076.2	26.8
60°-70°	4729.4	31.1
70°-80°	1722.2	11.3
80°-90°	121.3	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°	15214.0	100.0
0°-180°	15214.0	100.0

Coefficient of Utilization

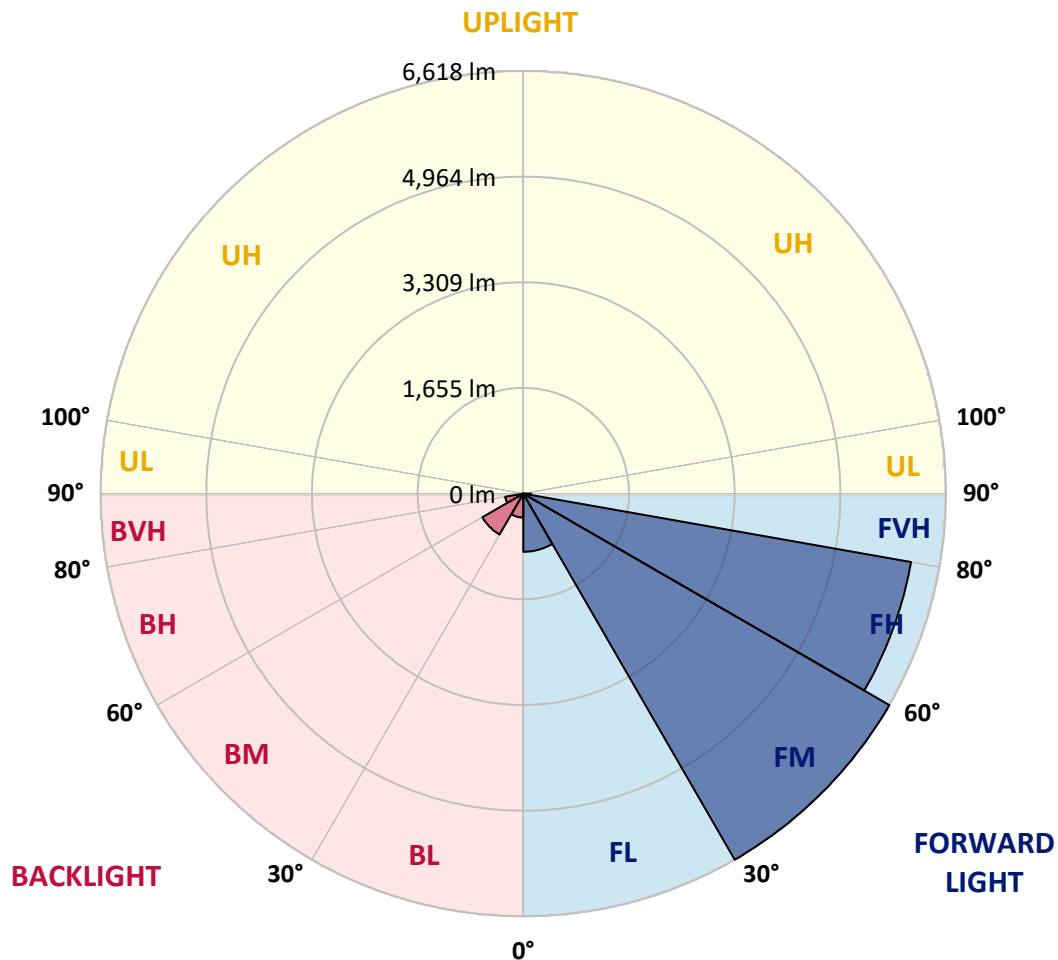


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	909.9	6.0			
FM (30°-60°)	6618.1	43.5			
FH (60°-80°)	6164.5	40.5			G3/7500
FVH (80°-90°)	119.7	0.8			G2/225
BL (0°-30°)	373.5	2.5	B1/500		
BM (30°-60°)	739.6	4.9	B1/1000		
BH (60°-80°)	287.1	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°	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0
2.5°	1593.8	1586.9	1583.4	1564.8	1550.8	1533.4	1533.4	1511.3	1485.7	1457.8	1432.2
5°	1771.7	1760.1	1745.0	1728.7	1696.1	1649.6	1649.6	1603.1	1549.7	1502.0	1449.7
7.5°	1942.6	1932.1	1906.6	1875.2	1821.7	1772.9	1769.4	1702.0	1638.0	1565.9	1491.5
10°	2092.6	2084.4	2062.3	2001.9	1946.1	1882.1	1881.0	1805.4	1731.0	1642.7	1550.8
12.5°	2197.2	2198.4	2169.3	2111.2	2039.1	1978.6	1974.0	1899.6	1821.7	1726.4	1613.6
15°	2271.6	2271.6	2241.4	2176.3	2111.2	2057.7	2053.0	1987.9	1907.7	1804.3	1682.2
17.5°	2292.5	2299.5	2266.9	2208.8	2156.5	2110.0	2108.8	2054.2	1990.3	1890.3	1751.9
20°	2284.4	2291.4	2265.8	2220.4	2184.4	2157.7	2154.2	2132.1	2072.8	1978.6	1826.3
22.5°	2266.9	2273.9	2255.3	2228.6	2211.1	2219.3	2213.5	2232.1	2200.7	2086.8	1914.7
25°	2270.4	2277.4	2263.5	2248.3	2263.5	2313.4	2328.6	2408.8	2380.9	2223.9	2010.0
27.5°	2379.7	2393.7	2373.9	2380.9	2434.4	2550.6	2579.7	2718.0	2594.8	2398.3	2158.8
30°	2622.7	2613.4	2576.2	2609.9	2795.9	3042.4	3034.2	3012.1	2819.2	2599.4	2335.5
32.5°	2843.6	2835.4	2833.1	2978.4	3315.6	3435.3	3429.5	3215.6	3020.3	2829.6	2509.9
35°	2933.1	2901.7	2894.7	3247.0	3810.8	3652.7	3616.7	3299.3	3264.4	3080.7	2687.8
37.5°	3202.8	3180.7	3072.6	3291.1	3613.2	3560.8	3532.9	3443.4	3524.8	3302.8	2888.9
40°	3758.5	3696.9	3599.2	3385.3	3333.0	3355.1	3383.0	3628.3	3832.9	3606.2	3157.4
42.5°	4449.0	4435.1	4253.7	3855.0	3463.2	3493.4	3529.5	4014.2	4275.8	4063.1	3595.7
45°	5277.9	5297.7	5036.1	4565.3	4051.4	4077.0	4129.3	4583.9	4875.7	4773.4	4285.1
47.5°	6031.2	6016.1	5927.8	5438.3	4964.0	4907.1	4991.9	5315.1	5705.7	5722.0	5140.7
50°	6789.2	6869.4	6738.1	6546.2	6194.0	6074.3	6042.9	6201.0	6796.2	6718.3	6168.4
52.5°	7878.5	7920.4	7673.9	7625.1	7705.3	7317.0	7285.6	7324.0	7856.4	7589.0	6938.0
55°	8563.2	8538.8	8447.0	8828.3	9145.7	8660.9	8621.4	8466.8	8736.5	8204.0	7678.6
57.5°	8779.5	8814.4	9028.3	9717.6	10468.6	10057.1	9985.0	9545.6	9371.2	8777.2	8359.8
60°	8683.0	8746.9	9208.5	10233.8	11275.4	11213.8	11152.2	10414.0	9826.9	9256.1	8837.6
62.5°	7995.9	8085.4	8823.7	10142.0	11548.6	11933.4	11856.7	10955.7	10130.3	9488.6	8921.3
65°	6700.9	6767.1	7827.4	9308.4	11160.4	12179.9	12152.0	11125.5	10178.0	9275.9	8348.2
67.5°	4776.9	5002.4	5984.7	7844.8	10011.8	11759.1	11806.7	10922.0	9730.4	8356.3	6913.6
70°	3002.8	3156.3	3860.8	5616.2	8026.2	10316.4	10473.3	9990.8	8444.7	6513.7	4628.1
72.5°	1432.2	1546.2	2048.4	3555.0	5665.0	8116.8	8241.2	8201.7	6530.0	4103.8	2387.9
75°	638.2	681.2	977.7	1814.7	3657.3	5455.8	5777.8	5831.3	4080.5	2007.7	928.9
77.5°	325.5	326.7	458.0	878.9	1826.3	3255.1	3319.0	3506.2	2212.3	884.7	323.2
80°	173.2	184.8	243.0	415.0	947.5	1603.1	1595.0	1753.1	981.2	433.6	108.1
82.5°	77.9	86.0	137.2	217.4	462.7	608.0	655.7	717.3	420.8	276.7	47.7
85°	23.3	27.9	67.4	109.3	167.4	175.5	196.5	253.4	238.3	196.5	24.4
87.5°	3.5	3.5	27.9	30.2	24.4	31.4	32.6	36.0	76.7	72.1	12.8
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°	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0	1416.0
2.5°	1418.3	1410.2	1381.1	1356.7	1335.8	1323.0	1307.9	1298.6	1293.9	1290.4	1291.6
5°	1424.1	1404.3	1354.4	1314.8	1284.6	1252.1	1230.0	1217.2	1211.4	1202.1	1202.1
7.5°	1456.7	1425.3	1355.5	1295.1	1242.8	1198.6	1156.7	1141.6	1131.1	1128.8	1126.5
10°	1503.2	1463.6	1368.3	1284.6	1210.2	1149.7	1090.5	1038.1	997.5	973.0	969.6
12.5°	1561.3	1504.3	1388.1	1277.6	1182.3	1075.3	918.4	812.6	741.7	719.6	723.1
15°	1614.8	1553.1	1407.8	1271.8	1131.1	891.7	713.8	592.9	556.9	553.4	554.5
17.5°	1678.7	1605.5	1431.1	1263.7	990.5	681.2	530.1	497.6	504.5	516.2	515.0
20°	1745.0	1661.3	1459.0	1214.9	790.5	512.7	468.5	472.0	482.5	492.9	495.2
22.5°	1815.9	1725.2	1491.5	1097.4	603.4	446.4	444.1	448.7	459.2	470.8	473.2
25°	1913.5	1805.4	1515.9	944.0	456.9	412.7	417.4	425.5	434.8	447.6	449.9
27.5°	2039.1	1913.5	1528.7	744.0	395.3	382.5	383.6	395.3	406.9	418.5	418.5
30°	2201.8	2042.6	1503.2	562.7	365.0	353.4	348.8	355.7	370.8	382.5	383.6
32.5°	2347.2	2164.6	1435.7	430.1	342.9	326.7	315.0	316.2	322.0	329.0	330.2
35°	2492.5	2283.2	1320.6	361.5	319.7	301.1	283.7	274.4	269.7	266.2	269.7
37.5°	2678.5	2430.9	1167.2	329.0	299.9	276.7	252.3	232.5	216.2	205.8	208.1
40°	2918.0	2635.5	985.8	308.1	281.3	253.4	220.9	195.3	167.4	158.1	153.5
42.5°	3313.2	2945.9	795.2	290.6	262.7	229.0	188.3	153.5	127.9	118.6	120.9
45°	3937.5	3337.6	612.7	272.0	244.1	202.3	158.1	120.9	100.0	95.3	97.7
47.5°	4765.2	3844.5	472.0	251.1	220.9	173.2	124.4	95.3	82.5	81.4	80.2
50°	5544.1	4316.5	394.1	227.9	193.0	144.2	102.3	80.2	72.1	70.9	70.9
52.5°	6248.6	4654.8	320.9	201.1	162.8	118.6	86.0	70.9	63.9	60.5	60.5
55°	6875.2	4875.7	260.4	168.6	127.9	94.2	74.4	63.9	55.8	51.2	50.0
57.5°	7348.4	4902.4	195.3	134.9	95.3	73.2	63.9	55.8	46.5	40.7	38.4
60°	7550.7	4671.1	144.2	102.3	70.9	58.1	51.2	45.3	34.9	29.1	27.9
62.5°	7347.2	4221.2	107.0	77.9	54.6	43.0	36.0	33.7	24.4	17.4	16.3
65°	6618.3	3571.3	84.9	59.3	40.7	31.4	23.3	22.1	15.1	8.1	7.0
67.5°	5302.3	2797.1	67.4	44.2	29.1	20.9	15.1	14.0	8.1	2.3	2.3
70°	3448.1	1788.0	54.6	32.6	18.6	14.0	9.3	7.0	4.7	1.2	0.0
72.5°	1705.4	835.9	44.2	25.6	12.8	7.0	3.5	2.3	3.5	0.0	0.0
75°	661.5	297.6	32.6	17.4	7.0	3.5	2.3	0.0	1.2	0.0	0.0
77.5°	219.7	98.8	19.8	9.3	4.7	2.3	0.0	0.0	0.0	0.0	0.0
80°	81.4	38.4	10.5	5.8	2.3	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	32.6	15.1	7.0	4.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.3	9.3	4.7	3.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.6	7.0	4.7	3.5	2.3	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)