

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: P458830

Luminaire Tested: **GALN-SA3C-735-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458830
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-SA3C-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA 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: 14143 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

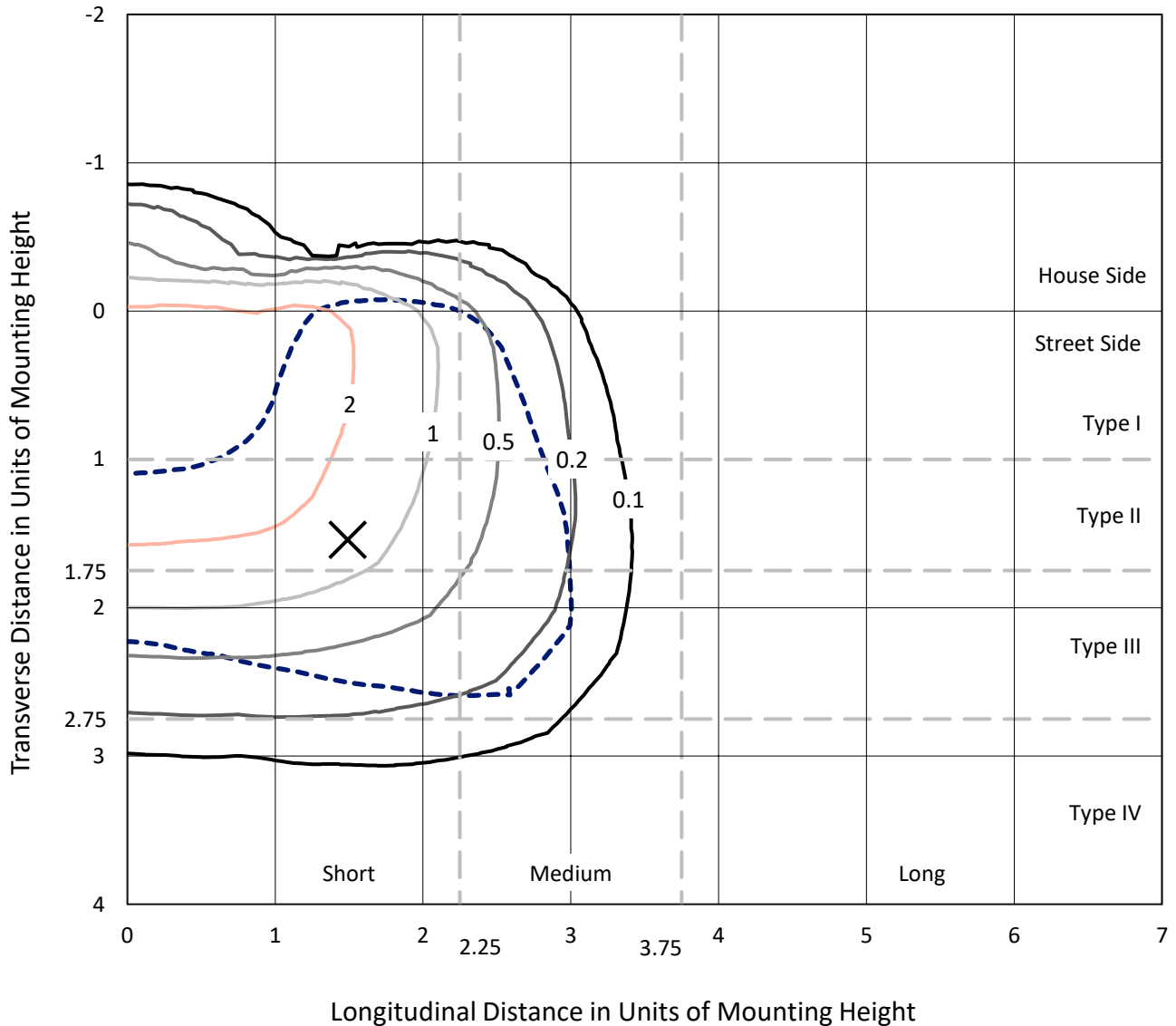
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

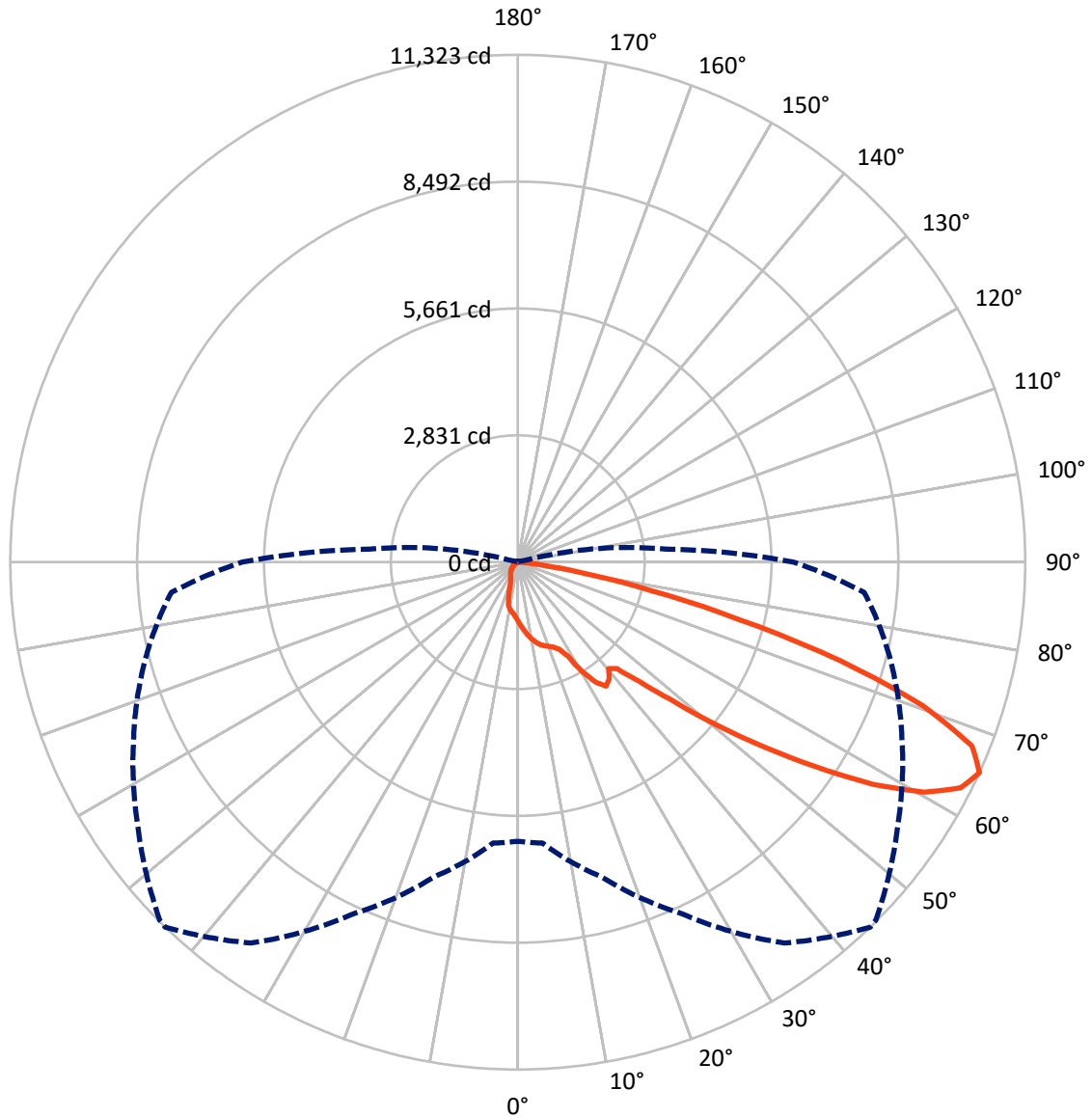
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	1303.1	0.0	1303.1
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	12839.9	0.0	12839.9
	% Fixture	90.8	0.0	90.8
Total	Lumens	14143.0	0.0	14143.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.9	0.9
10°-20°	394.0	2.8
20°-30°	668.1	4.7
30°-40°	1110.9	7.9
40°-50°	1939.6	13.7
50°-60°	3789.3	26.8
60°-70°	4396.4	31.1
70°-80°	1601.0	11.3
80°-90°	112.8	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°	14143.0	100.0
0°-180°	14143.0	100.0

Coefficient of Utilization



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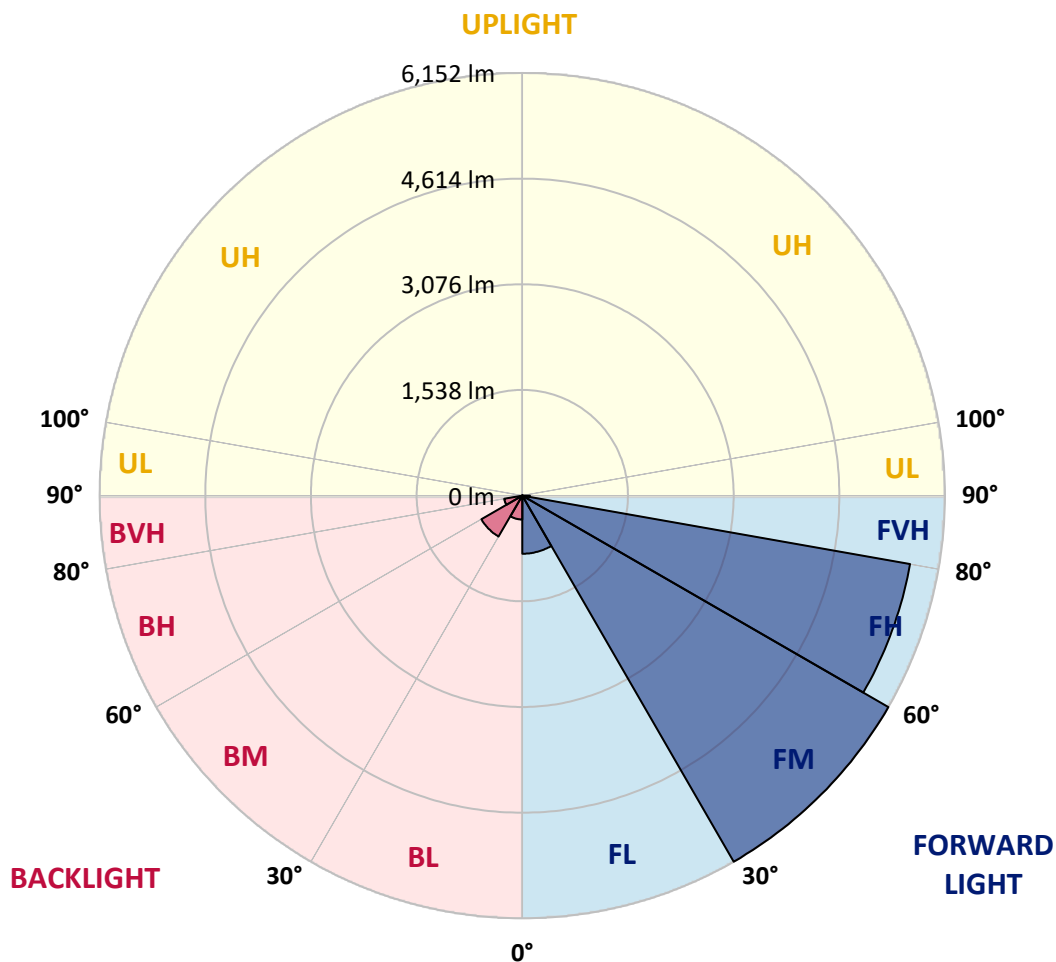
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	845.9	6.0			
FM (30°-60°)	6152.2	43.5			
FH (60°-80°)	5730.6	40.5			G3/7500
FVH (80°-90°)	111.3	0.8			G2/225
BL (0°-30°)	347.2	2.5	B1/500		
BM (30°-60°)	687.5	4.9	B1/1000		
BH (60°-80°)	266.9	1.9	B1/500		G1/500
BVH (80°-90°)	1.5	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°	1316.3	1316.3	1316.3	1316.3	1316.3	1316.3	1316.3	1316.3	1316.3	1316.3	1316.3
2.5°	1481.6	1475.2	1471.9	1454.6	1441.7	1425.4	1425.4	1404.9	1381.1	1355.2	1331.4
5°	1647.0	1636.2	1622.1	1607.0	1576.7	1533.5	1533.5	1490.3	1440.6	1396.3	1347.6
7.5°	1805.8	1796.1	1772.3	1743.2	1693.5	1648.1	1644.8	1582.1	1522.7	1455.7	1386.5
10°	1945.3	1937.7	1917.2	1861.0	1809.1	1749.7	1748.6	1678.3	1609.2	1527.0	1441.7
12.5°	2042.5	2043.6	2016.6	1962.5	1895.5	1839.3	1835.0	1765.9	1693.5	1604.8	1500.0
15°	2111.7	2111.7	2083.6	2023.1	1962.5	1912.8	1908.5	1848.0	1773.4	1677.2	1563.8
17.5°	2131.1	2137.6	2107.4	2053.3	2004.7	1961.5	1960.4	1909.6	1850.2	1757.2	1628.6
20°	2123.6	2130.1	2106.3	2064.1	2030.6	2005.8	2002.5	1982.0	1926.9	1839.3	1697.8
22.5°	2107.4	2113.8	2096.6	2071.7	2055.5	2063.1	2057.7	2074.9	2045.8	1939.9	1779.9
25°	2110.6	2117.1	2104.1	2090.1	2104.1	2150.6	2164.6	2239.2	2213.3	2067.4	1868.5
27.5°	2212.2	2225.2	2206.8	2213.3	2263.0	2371.1	2398.1	2526.7	2412.1	2229.5	2006.9
30°	2438.1	2429.4	2394.8	2426.2	2599.1	2828.2	2820.6	2800.1	2620.7	2416.4	2171.1
32.5°	2643.4	2635.8	2633.7	2768.8	3082.2	3193.5	3188.1	2989.2	2807.7	2630.4	2333.2
35°	2726.6	2697.4	2690.9	3018.4	3542.5	3395.6	3362.1	3067.0	3034.6	2863.9	2498.6
37.5°	2977.3	2956.8	2856.3	3059.5	3358.8	3310.2	3284.2	3201.0	3276.7	3070.3	2685.5
40°	3493.9	3436.6	3345.8	3147.0	3098.4	3118.9	3144.8	3372.9	3563.1	3352.3	2935.2
42.5°	4135.8	4122.9	3954.3	3583.6	3219.4	3247.5	3281.0	3731.7	3974.8	3777.0	3342.6
45°	4906.4	4924.7	4681.6	4243.9	3766.2	3790.0	3838.6	4261.2	4532.5	4437.4	3983.5
47.5°	5606.7	5592.6	5510.5	5055.5	4614.6	4561.6	4640.5	4941.0	5304.1	5319.2	4778.9
50°	6311.3	6385.9	6263.7	6085.4	5758.0	5646.7	5617.5	5764.4	6317.8	6245.4	5734.2
52.5°	7323.9	7362.8	7133.7	7088.3	7162.9	6801.9	6772.7	6808.4	7303.4	7054.8	6449.6
55°	7960.4	7937.7	7852.4	8206.8	8501.9	8051.2	8014.5	7870.7	8121.5	7626.5	7138.0
57.5°	8161.4	8193.9	8392.7	9033.6	9731.7	9349.1	9282.1	8873.6	8711.5	8159.3	7771.3
60°	8071.7	8131.2	8560.2	9513.4	10481.7	10424.4	10367.1	9680.9	9135.1	8604.5	8215.5
62.5°	7433.0	7516.3	8202.5	9428.0	10735.7	11093.4	11022.1	10184.5	9417.2	8820.7	8293.3
65°	6229.1	6290.7	7276.3	8653.2	10374.7	11322.5	11296.5	10342.3	9461.5	8622.9	7760.5
67.5°	4440.6	4650.2	5563.4	7292.6	9307.0	10931.3	10975.6	10153.2	9045.5	7768.1	6426.9
70°	2791.4	2934.1	3589.0	5220.9	7461.1	9590.1	9736.0	9287.5	7850.2	6055.2	4302.3
72.5°	1331.4	1437.3	1904.2	3304.8	5266.2	7545.4	7661.1	7624.3	6070.3	3814.9	2219.8
75°	593.3	633.3	908.9	1687.0	3399.9	5071.7	5371.1	5420.8	3793.3	1866.4	863.5
77.5°	302.6	303.7	425.8	817.0	1697.8	3026.0	3085.4	3259.4	2056.6	822.4	300.4
80°	161.0	171.8	225.9	385.8	880.8	1490.3	1482.7	1629.7	912.1	403.1	100.5
82.5°	72.4	80.0	127.5	202.1	430.1	565.2	609.5	666.8	391.2	257.2	44.3
85°	21.6	25.9	62.7	101.6	155.6	163.2	182.6	235.6	221.5	182.6	22.7
87.5°	3.2	3.2	25.9	28.1	22.7	29.2	30.3	33.5	71.3	67.0	11.9
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°	1316.3	1316.3	1316.3	1316.3	1316.3	1316.3	1316.3	1316.3	1316.3	1316.3	1316.3
2.5°	1318.5	1310.9	1283.9	1261.2	1241.7	1229.8	1215.8	1207.1	1202.8	1199.6	1200.7
5°	1323.9	1305.5	1259.0	1222.3	1194.2	1163.9	1143.4	1131.5	1126.1	1117.4	1117.4
7.5°	1354.1	1324.9	1260.1	1203.9	1155.3	1114.2	1075.3	1061.2	1051.5	1049.4	1047.2
10°	1397.3	1360.6	1272.0	1194.2	1125.0	1068.8	1013.7	965.1	927.2	904.5	901.3
12.5°	1451.4	1398.4	1290.4	1187.7	1099.1	999.6	853.8	755.4	689.5	669.0	672.2
15°	1501.1	1443.8	1308.7	1182.3	1051.5	828.9	663.5	551.2	517.7	514.4	515.5
17.5°	1560.5	1492.4	1330.3	1174.7	920.8	633.3	492.8	462.5	469.0	479.8	478.7
20°	1622.1	1544.3	1356.3	1129.3	734.9	476.6	435.5	438.8	448.5	458.2	460.4
22.5°	1688.1	1603.8	1386.5	1020.2	560.9	415.0	412.8	417.1	426.9	437.7	439.8
25°	1778.8	1678.3	1409.2	877.5	424.7	383.6	388.0	395.5	404.2	416.1	418.2
27.5°	1895.5	1778.8	1421.1	691.6	367.4	355.6	356.6	367.4	378.2	389.1	389.1
30°	2046.8	1898.8	1397.3	523.1	339.3	328.5	324.2	330.7	344.7	355.6	356.6
32.5°	2181.9	2012.3	1334.7	399.9	318.8	303.7	292.9	294.0	299.4	305.8	306.9
35°	2317.0	2122.5	1227.7	336.1	297.2	279.9	263.7	255.0	250.7	247.5	250.7
37.5°	2489.9	2259.7	1085.0	305.8	278.8	257.2	234.5	216.1	201.0	191.3	193.4
40°	2712.6	2449.9	916.4	286.4	261.5	235.6	205.3	181.6	155.6	147.0	142.7
42.5°	3080.0	2738.5	739.2	270.2	244.2	212.9	175.1	142.7	118.9	110.2	112.4
45°	3660.3	3102.7	569.5	252.9	226.9	188.0	147.0	112.4	92.9	88.6	90.8
47.5°	4429.8	3573.9	438.8	233.4	205.3	161.0	115.6	88.6	76.7	75.6	74.6
50°	5153.9	4012.6	366.4	211.8	179.4	134.0	95.1	74.6	67.0	65.9	65.9
52.5°	5808.8	4327.1	298.3	187.0	151.3	110.2	80.0	65.9	59.4	56.2	56.2
55°	6391.3	4532.5	242.1	156.7	118.9	87.5	69.2	59.4	51.9	47.6	46.5
57.5°	6831.1	4557.3	181.6	125.4	88.6	68.1	59.4	51.9	43.2	37.8	35.7
60°	7019.1	4342.2	134.0	95.1	65.9	54.0	47.6	42.1	32.4	27.0	25.9
62.5°	6830.0	3924.0	99.4	72.4	50.8	40.0	33.5	31.3	22.7	16.2	15.1
65°	6152.4	3319.9	78.9	55.1	37.8	29.2	21.6	20.5	14.0	7.6	6.5
67.5°	4929.1	2600.2	62.7	41.1	27.0	19.5	14.0	13.0	7.6	2.2	2.2
70°	3205.4	1662.1	50.8	30.3	17.3	13.0	8.6	6.5	4.3	1.1	0.0
72.5°	1585.4	777.0	41.1	23.8	11.9	6.5	3.2	2.2	3.2	0.0	0.0
75°	614.9	276.7	30.3	16.2	6.5	3.2	2.2	0.0	1.1	0.0	0.0
77.5°	204.3	91.9	18.4	8.6	4.3	2.2	0.0	0.0	0.0	0.0	0.0
80°	75.6	35.7	9.7	5.4	2.2	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	30.3	14.0	6.5	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.1	8.6	4.3	3.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.8	6.5	4.3	3.2	2.2	1.1	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)