

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: P453958

Luminaire Tested: **GALN-SA5A-730-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453958
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-SA5A-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA 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: 15088 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

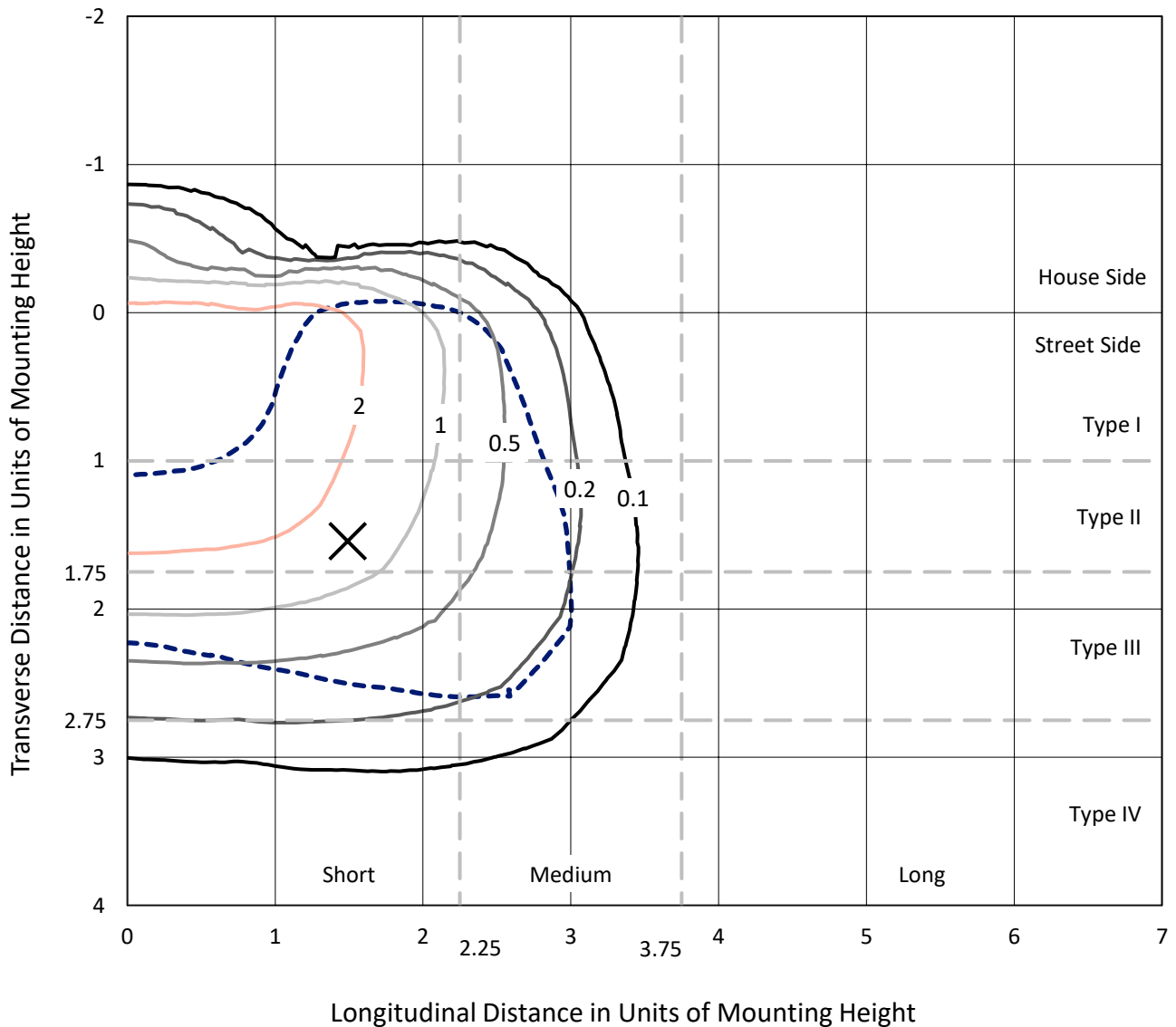
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

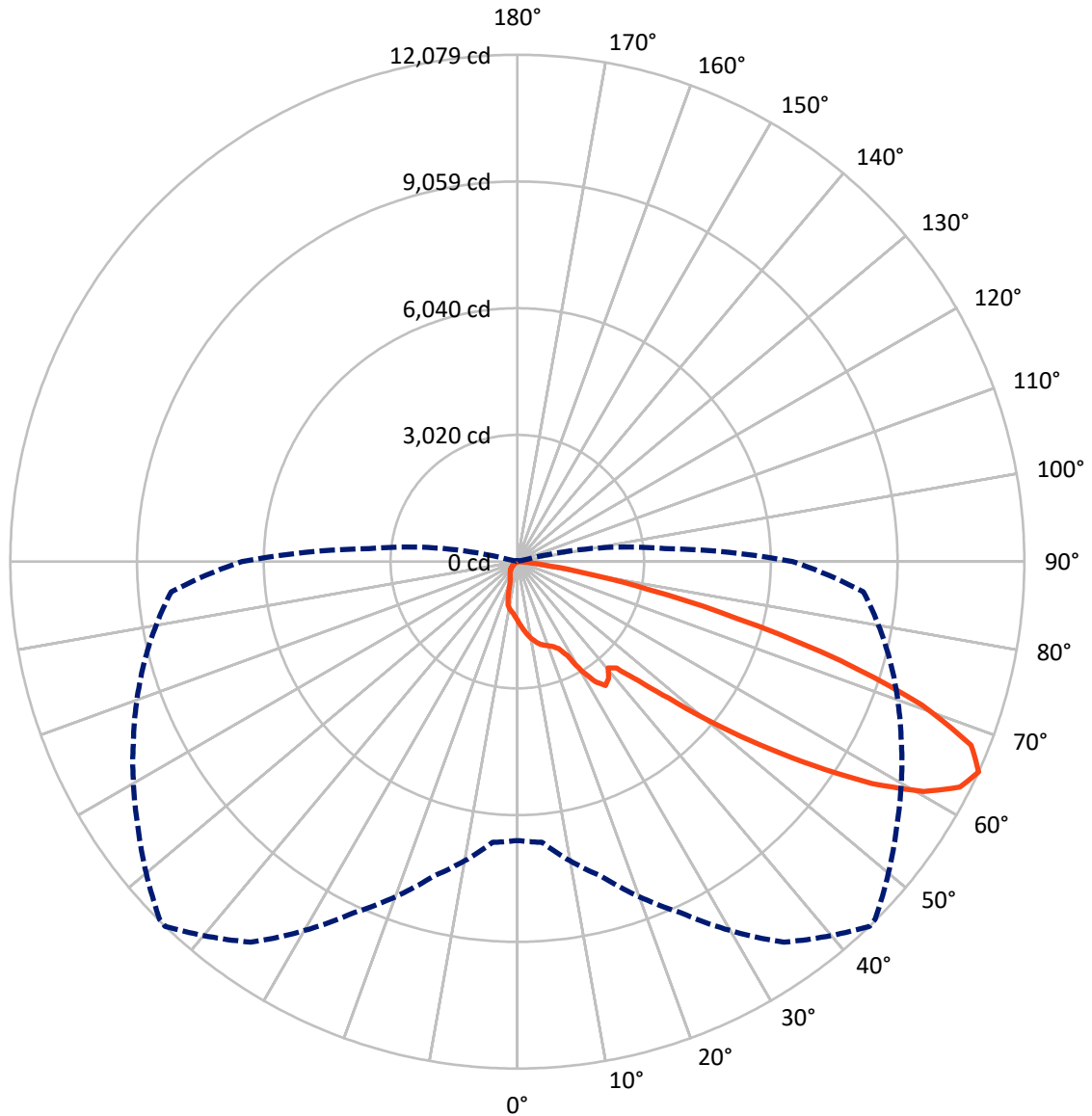
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	1390.1	0.0	1390.1
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	13697.9	0.0	13697.9
	% Fixture	90.8	0.0	90.8
Total	Lumens	15088.0	0.0	15088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	0.9
10°-20°	420.4	2.8
20°-30°	712.8	4.7
30°-40°	1185.1	7.9
40°-50°	2069.2	13.7
50°-60°	4042.5	26.8
60°-70°	4690.2	31.1
70°-80°	1707.9	11.3
80°-90°	120.3	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°	15088.0	100.0
0°-180°	15088.0	100.0

Coefficient of Utilization



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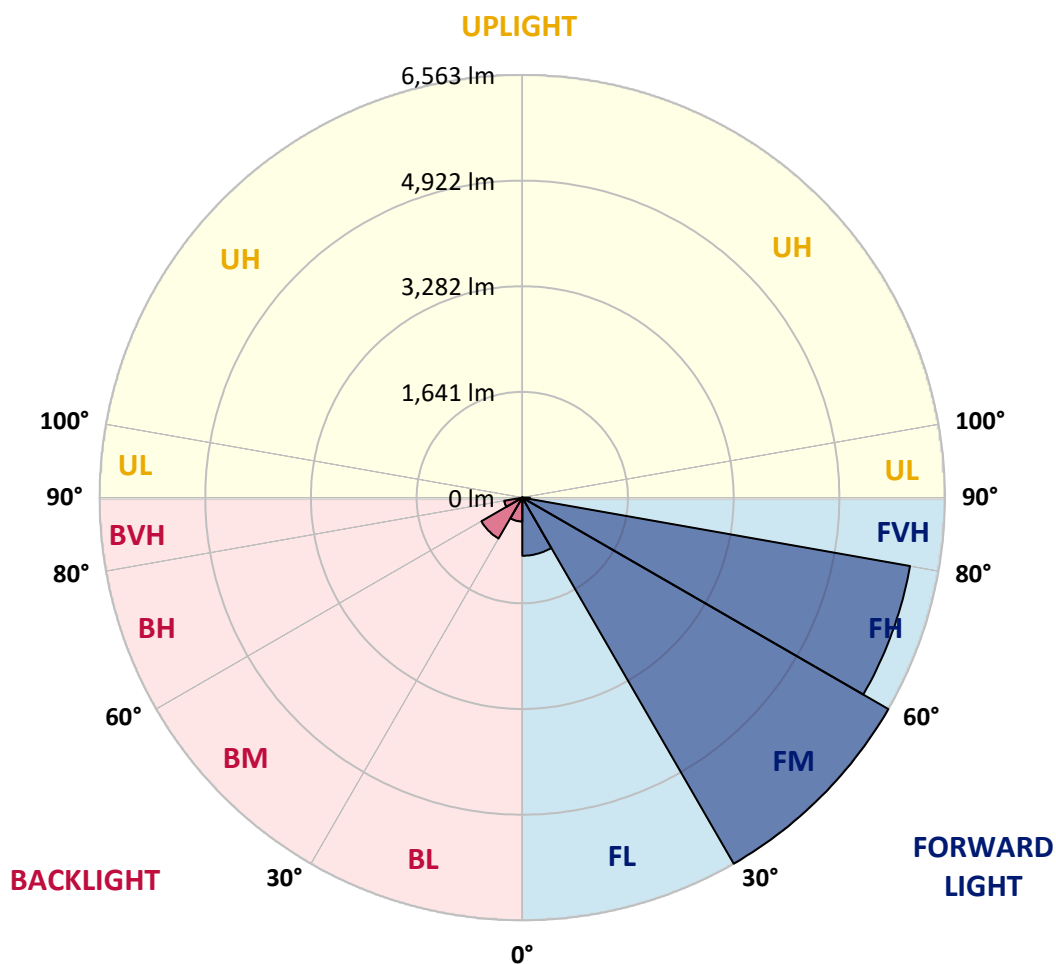
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	902.4	6.0			
FM	(30°-60°)	6563.3	43.5			
FH	(60°-80°)	6113.5	40.5			G3/7500
FVH	(80°-90°)	118.7	0.8			G2/225
BL	(0°-30°)	370.4	2.5	B1/500		
BM	(30°-60°)	733.4	4.9	B1/1000		
BH	(60°-80°)	284.7	1.9	B1/500		G1/500
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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2
2.5°	1580.6	1573.7	1570.3	1551.8	1538.0	1520.7	1520.7	1498.8	1473.4	1445.7	1420.4
5°	1757.0	1745.5	1730.5	1714.4	1682.1	1636.0	1636.0	1589.9	1536.8	1489.6	1437.7
7.5°	1926.5	1916.1	1890.8	1859.6	1806.6	1758.2	1754.7	1687.9	1624.4	1553.0	1479.2
10°	2075.2	2067.2	2045.3	1985.3	1930.0	1866.6	1865.4	1790.5	1716.7	1629.1	1538.0
12.5°	2179.0	2180.2	2151.3	2093.7	2022.2	1962.3	1957.6	1883.9	1806.6	1712.1	1600.2
15°	2252.8	2252.8	2222.8	2158.2	2093.7	2040.6	2036.0	1971.5	1891.9	1789.3	1668.3
17.5°	2273.5	2280.5	2248.2	2190.5	2138.6	2092.5	2091.4	2037.2	1973.8	1874.6	1737.4
20°	2265.5	2272.4	2247.0	2202.1	2166.3	2139.8	2136.3	2114.4	2055.6	1962.3	1811.2
22.5°	2248.2	2255.1	2236.6	2210.1	2192.8	2200.9	2195.1	2213.6	2182.5	2069.5	1898.8
25°	2251.6	2258.5	2244.7	2229.7	2244.7	2294.3	2309.3	2388.8	2361.2	2205.5	1993.4
27.5°	2360.0	2373.8	2354.2	2361.2	2414.2	2529.5	2558.3	2695.5	2573.3	2378.5	2141.0
30°	2601.0	2591.7	2554.8	2588.3	2772.7	3017.2	3009.1	2987.2	2795.8	2577.9	2316.2
32.5°	2820.0	2811.9	2809.6	2953.8	3288.1	3406.8	3401.1	3188.9	2995.3	2806.2	2489.1
35°	2908.8	2877.7	2870.7	3220.1	3779.2	3622.4	3586.7	3272.0	3237.4	3055.2	2665.5
37.5°	3176.3	3154.4	3047.1	3263.9	3583.2	3531.4	3503.7	3414.9	3495.6	3275.4	2865.0
40°	3727.4	3666.2	3569.4	3357.3	3305.4	3327.3	3355.0	3598.2	3801.1	3576.3	3131.3
42.5°	4412.2	4398.3	4218.5	3823.0	3434.5	3464.5	3500.2	3981.0	4240.4	4029.4	3565.9
45°	5234.2	5253.8	4994.4	4527.5	4017.9	4043.3	4095.1	4545.9	4835.3	4733.8	4249.6
47.5°	5981.3	5966.3	5878.7	5393.3	4922.9	4866.4	4950.6	5271.1	5658.5	5674.6	5098.2
50°	6733.0	6812.5	6682.3	6492.0	6142.7	6023.9	5992.8	6149.6	6739.9	6662.7	6117.3
52.5°	7813.3	7854.8	7610.4	7561.9	7641.5	7256.4	7225.3	7263.3	7791.4	7526.2	6880.6
55°	8492.3	8468.1	8377.0	8755.2	9069.9	8589.2	8550.0	8396.6	8664.1	8136.1	7615.0
57.5°	8706.8	8741.4	8953.5	9637.2	10381.9	9973.8	9902.3	9466.5	9293.6	8704.5	8290.6
60°	8611.1	8674.5	9132.2	10149.1	11182.1	11121.0	11059.9	10327.8	9745.5	9179.5	8764.4
62.5°	7929.7	8018.5	8750.6	10058.0	11453.0	11834.6	11758.5	10865.0	10046.4	9410.0	8847.4
65°	6645.4	6711.1	7762.5	9231.3	11067.9	12079.0	12051.4	11033.3	10093.7	9199.1	8279.0
67.5°	4737.3	4961.0	5935.2	7779.8	9928.9	11661.7	11708.9	10831.6	9649.8	8287.1	6856.3
70°	2978.0	3130.1	3828.8	5569.7	7959.7	10230.9	10386.6	9908.1	8374.7	6459.7	4589.7
72.5°	1420.4	1533.4	2031.4	3525.6	5618.1	8049.6	8173.0	8133.8	6475.9	4069.8	2368.1
75°	632.9	675.6	969.6	1799.7	3627.1	5410.6	5730.0	5783.0	4046.7	1991.1	921.2
77.5°	322.8	324.0	454.2	871.6	1811.2	3228.1	3291.6	3477.2	2194.0	877.4	320.5
80°	171.8	183.3	241.0	411.6	939.6	1589.9	1581.8	1738.6	973.1	430.0	107.2
82.5°	77.2	85.3	136.0	215.6	458.9	603.0	650.2	711.3	417.4	274.4	47.3
85°	23.1	27.7	66.9	108.4	166.0	174.1	194.8	251.3	236.3	194.8	24.2
87.5°	3.5	3.5	27.7	30.0	24.2	31.1	32.3	35.7	76.1	71.5	12.7
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°	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2	1404.2
2.5°	1406.5	1398.5	1369.7	1345.4	1324.7	1312.0	1297.0	1287.8	1283.2	1279.7	1280.9
5°	1412.3	1392.7	1343.1	1303.9	1274.0	1241.7	1219.8	1207.1	1201.3	1192.1	1192.1
7.5°	1444.6	1413.5	1344.3	1284.3	1232.5	1188.6	1147.1	1132.2	1121.8	1119.5	1117.2
10°	1490.7	1451.5	1357.0	1274.0	1200.2	1140.2	1081.4	1029.5	989.2	965.0	961.5
12.5°	1548.4	1491.9	1376.6	1267.0	1172.5	1066.4	910.8	805.9	735.6	713.7	717.1
15°	1601.4	1540.3	1396.2	1261.3	1121.8	884.3	707.9	588.0	552.2	548.8	549.9
17.5°	1664.8	1592.2	1419.2	1253.2	982.3	675.6	525.7	493.4	500.4	511.9	510.7
20°	1730.5	1647.5	1446.9	1204.8	784.0	508.4	464.6	468.1	478.5	488.8	491.1
22.5°	1800.8	1710.9	1479.2	1088.3	598.4	442.7	440.4	445.0	455.4	466.9	469.2
25°	1897.7	1790.5	1503.4	936.2	453.1	409.3	413.9	422.0	431.2	443.9	446.2
27.5°	2022.2	1897.7	1516.1	737.9	392.0	379.3	380.5	392.0	403.5	415.0	415.0
30°	2183.6	2025.7	1490.7	558.0	362.0	350.5	345.9	352.8	367.8	379.3	380.5
32.5°	2327.7	2146.7	1423.8	426.6	340.1	324.0	312.4	313.6	319.4	326.3	327.4
35°	2471.8	2264.3	1309.7	358.6	317.0	298.6	281.3	272.1	267.5	264.0	267.5
37.5°	2656.3	2410.7	1157.5	326.3	297.5	274.4	250.2	230.6	214.4	204.1	206.4
40°	2893.8	2613.6	977.7	305.5	279.0	251.3	219.1	193.7	166.0	156.8	152.2
42.5°	3285.8	2921.5	788.6	288.2	260.6	227.1	186.8	152.2	126.8	117.6	119.9
45°	3904.9	3310.0	607.6	269.8	242.1	200.6	156.8	119.9	99.2	94.5	96.8
47.5°	4725.8	3812.7	468.1	249.0	219.1	171.8	123.4	94.5	81.9	80.7	79.6
50°	5498.2	4280.8	390.8	226.0	191.4	143.0	101.5	79.6	71.5	70.3	70.3
52.5°	6196.9	4616.2	318.2	199.5	161.4	117.6	85.3	70.3	63.4	60.0	60.0
55°	6818.3	4835.3	258.3	167.2	126.8	93.4	73.8	63.4	55.3	50.7	49.6
57.5°	7287.5	4861.8	193.7	133.7	94.5	72.6	63.4	55.3	46.1	40.4	38.0
60°	7488.1	4632.4	143.0	101.5	70.3	57.6	50.7	45.0	34.6	28.8	27.7
62.5°	7286.4	4186.2	106.1	77.2	54.2	42.7	35.7	33.4	24.2	17.3	16.1
65°	6563.5	3541.7	84.2	58.8	40.4	31.1	23.1	21.9	15.0	8.1	6.9
67.5°	5258.4	2773.9	66.9	43.8	28.8	20.8	15.0	13.8	8.1	2.3	2.3
70°	3419.5	1773.2	54.2	32.3	18.4	13.8	9.2	6.9	4.6	1.2	0.0
72.5°	1691.3	828.9	43.8	25.4	12.7	6.9	3.5	2.3	3.5	0.0	0.0
75°	656.0	295.1	32.3	17.3	6.9	3.5	2.3	0.0	1.2	0.0	0.0
77.5°	217.9	98.0	19.6	9.2	4.6	2.3	0.0	0.0	0.0	0.0	0.0
80°	80.7	38.0	10.4	5.8	2.3	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	32.3	15.0	6.9	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.1	9.2	4.6	3.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.5	6.9	4.6	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)