

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: P455002

Luminaire Tested: **GALN-SA6A-827-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455002
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-SA6A-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 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: 14421 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

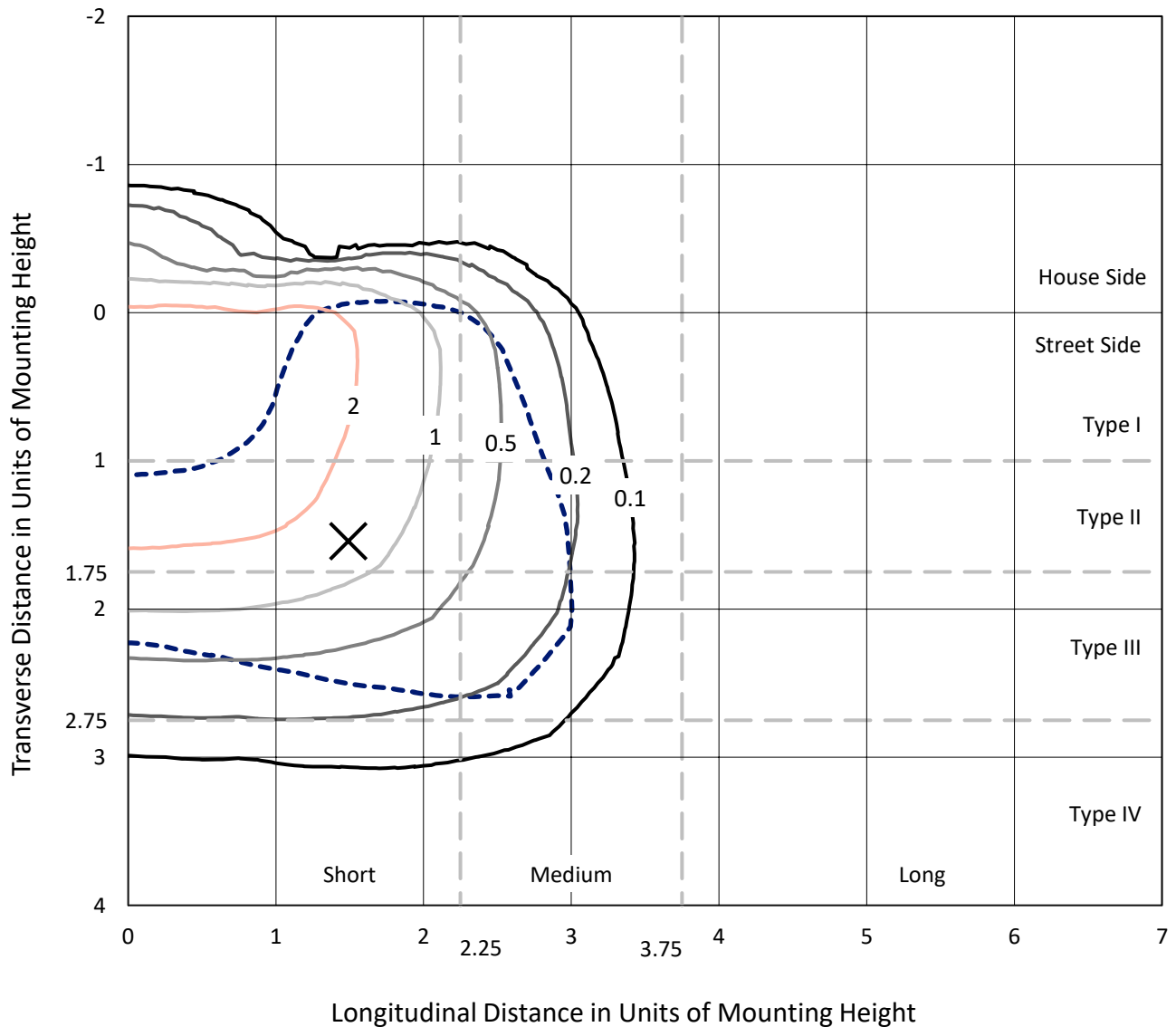
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

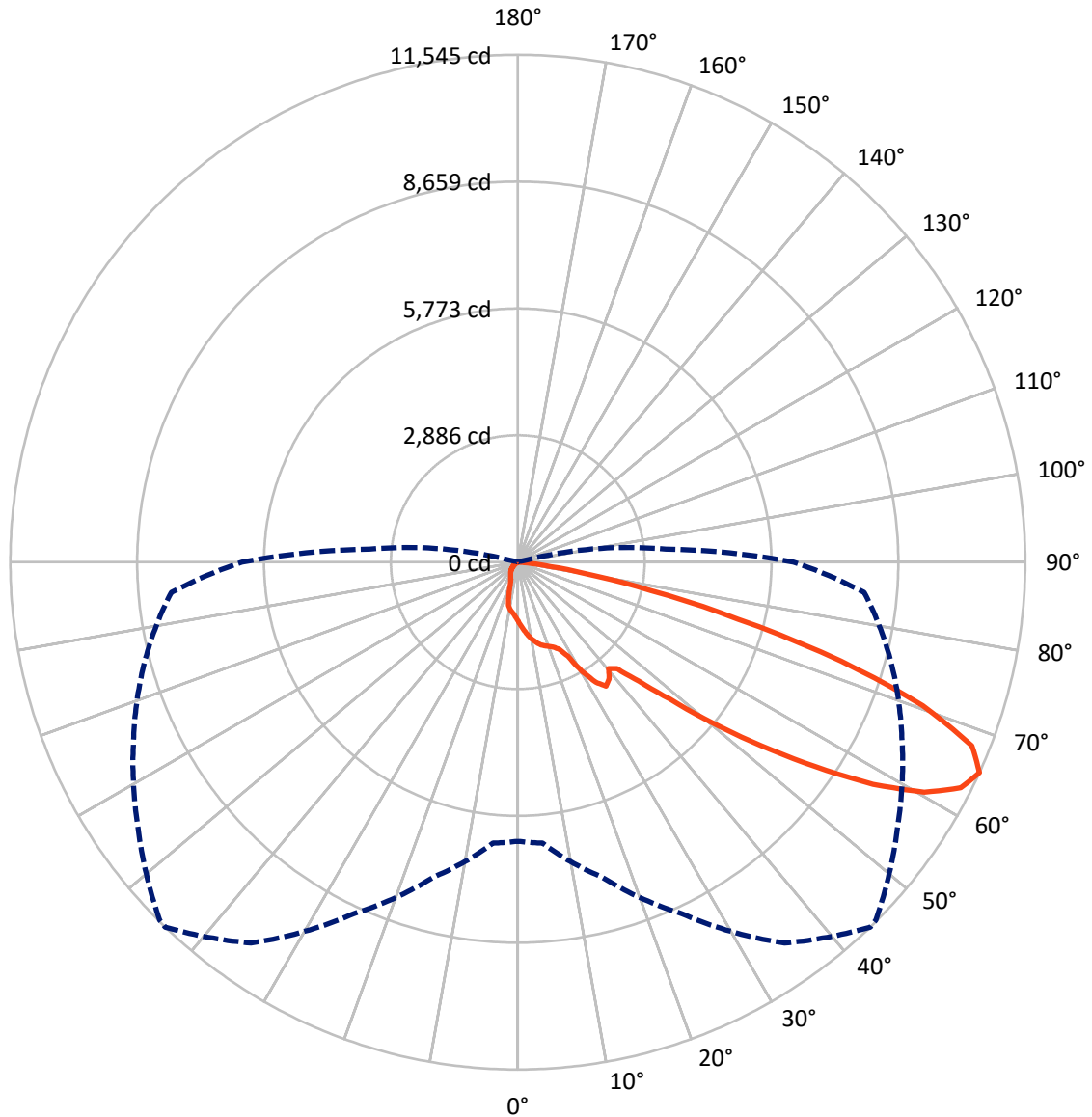
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	1328.7	0.0	1328.7
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	13092.3	0.0	13092.3
	% Fixture	90.8	0.0	90.8
Total	Lumens	14421.0	0.0	14421.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	0.9
10°-20°	401.8	2.8
20°-30°	681.3	4.7
30°-40°	1132.7	7.9
40°-50°	1977.7	13.7
50°-60°	3863.8	26.8
60°-70°	4482.9	31.1
70°-80°	1632.4	11.3
80°-90°	115.0	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°	14421.0	100.0
0°-180°	14421.0	100.0

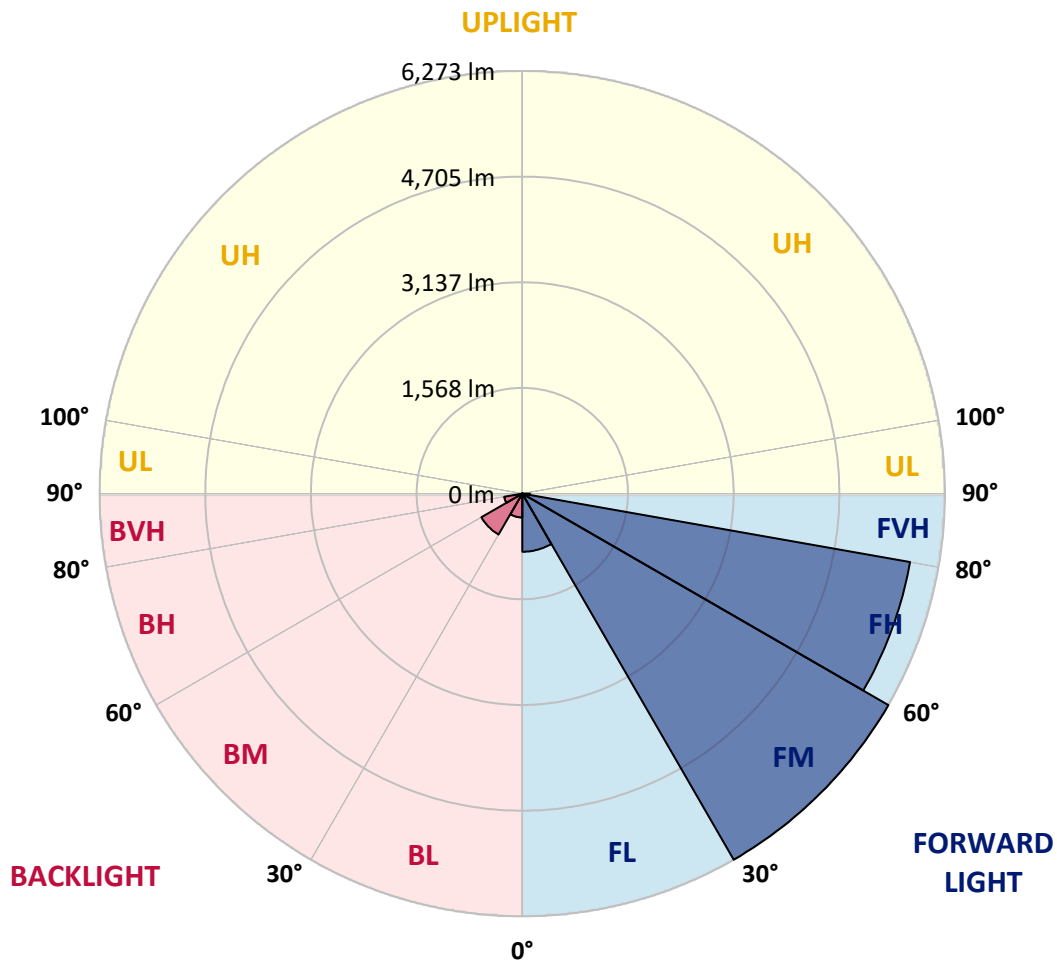


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	862.5	6.0			
FM (30°-60°)	6273.2	43.5			
FH (60°-80°)	5843.2	40.5			G3/7500
FVH (80°-90°)	113.5	0.8			G2/225
BL (0°-30°)	354.0	2.5	B1/500		
BM (30°-60°)	701.0	4.9	B1/1000		
BH (60°-80°)	272.1	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°	1342.2	1342.2	1342.2	1342.2	1342.2	1342.2	1342.2	1342.2	1342.2	1342.2	1342.2
2.5°	1510.8	1504.2	1500.8	1483.2	1470.0	1453.5	1453.5	1432.5	1408.3	1381.8	1357.6
5°	1679.4	1668.3	1654.0	1638.6	1607.7	1563.7	1563.7	1519.6	1468.9	1423.7	1374.1
7.5°	1841.3	1831.4	1807.2	1777.4	1726.7	1680.5	1677.2	1613.2	1552.6	1484.3	1413.8
10°	1983.5	1975.8	1954.8	1897.5	1844.7	1784.0	1782.9	1711.3	1640.8	1557.0	1470.0
12.5°	2082.7	2083.8	2056.2	2001.1	1932.8	1875.5	1871.1	1800.6	1726.7	1636.4	1529.5
15°	2153.2	2153.2	2124.5	2062.8	2001.1	1950.4	1946.0	1884.3	1808.3	1710.2	1594.5
17.5°	2173.0	2179.6	2148.8	2093.7	2044.1	2000.0	1998.9	1947.1	1886.5	1791.8	1660.6
20°	2165.3	2171.9	2147.7	2104.7	2070.5	2045.2	2041.9	2021.0	1964.8	1875.5	1731.2
22.5°	2148.8	2155.4	2137.8	2112.4	2095.9	2103.6	2098.1	2115.7	2086.0	1978.0	1814.9
25°	2152.1	2158.7	2145.5	2131.2	2145.5	2192.9	2207.2	2283.2	2256.8	2108.0	1905.3
27.5°	2255.7	2268.9	2250.2	2256.8	2307.5	2417.7	2445.2	2576.3	2459.5	2273.3	2046.3
30°	2486.0	2477.2	2441.9	2473.9	2650.2	2883.8	2876.1	2855.1	2672.2	2463.9	2213.8
32.5°	2695.3	2687.6	2685.4	2823.2	3142.7	3256.2	3250.7	3048.0	2862.8	2682.1	2379.1
35°	2780.2	2750.4	2743.8	3077.7	3612.2	3462.3	3428.1	3127.3	3094.3	2920.1	2547.7
37.5°	3035.8	3014.9	2912.4	3119.6	3424.8	3375.2	3348.8	3264.0	3341.1	3130.6	2738.3
40°	3562.6	3504.2	3411.6	3208.9	3159.3	3180.2	3206.7	3439.2	3633.1	3418.2	2992.9
42.5°	4217.1	4203.9	4032.0	3654.0	3282.7	3311.3	3345.5	3805.0	4052.9	3851.3	3408.3
45°	5002.8	5021.5	4773.6	4327.3	3840.3	3864.5	3914.1	4345.0	4621.5	4524.6	4061.8
47.5°	5716.9	5702.5	5618.8	5154.9	4705.3	4651.3	4731.7	5038.1	5408.3	5423.8	4872.8
50°	6435.3	6511.4	6386.9	6205.0	5871.1	5757.6	5727.9	5877.8	6442.0	6368.1	5846.9
52.5°	7467.9	7507.5	7273.9	7227.6	7303.7	6935.6	6905.9	6942.2	7446.9	7193.5	6576.4
55°	8116.9	8093.8	8006.7	8368.1	8669.0	8209.5	8172.0	8025.4	8281.1	7776.4	7278.3
57.5°	8321.9	8354.9	8557.7	9211.1	9923.0	9532.9	9464.6	9048.0	8882.8	8319.7	7924.1
60°	8230.4	8291.0	8728.5	9700.4	10687.7	10629.3	10570.9	9871.2	9314.7	8773.7	8377.0
62.5°	7579.2	7664.0	8363.7	9613.3	10946.7	11311.4	11238.7	10384.7	9602.3	8994.0	8456.3
65°	6351.6	6414.4	7419.4	8823.2	10578.6	11545.0	11518.6	10545.6	9647.5	8792.4	7913.0
67.5°	4527.9	4741.7	5672.8	7435.9	9489.9	11146.1	11191.3	10352.7	9223.3	7920.8	6553.2
70°	2846.3	2991.8	3659.5	5323.5	7607.8	9778.6	9927.4	9470.1	8004.5	6174.2	4386.8
72.5°	1357.6	1465.6	1941.6	3369.7	5369.8	7693.8	7811.7	7774.2	6189.6	3889.9	2263.4
75°	605.0	645.7	926.7	1720.1	3466.7	5171.4	5476.7	5527.3	3867.8	1903.1	880.5
77.5°	308.5	309.6	434.2	833.1	1731.2	3085.4	3146.0	3323.5	2097.0	838.6	306.3
80°	164.2	175.2	230.3	393.4	898.1	1519.6	1511.9	1661.7	930.0	411.0	102.5
82.5°	73.8	81.5	130.0	206.1	438.6	576.3	621.5	679.9	398.9	262.3	45.2
85°	22.0	26.4	63.9	103.6	158.7	166.4	186.2	240.2	225.9	186.2	23.1
87.5°	3.3	3.3	26.4	28.7	23.1	29.8	30.9	34.2	72.7	68.3	12.1
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°	1342.2	1342.2	1342.2	1342.2	1342.2	1342.2	1342.2	1342.2	1342.2	1342.2	1342.2
2.5°	1344.4	1336.7	1309.1	1286.0	1266.1	1254.0	1239.7	1230.9	1226.5	1223.2	1224.3
5°	1349.9	1331.1	1283.8	1246.3	1217.6	1186.8	1165.9	1153.7	1148.2	1139.4	1139.4
7.5°	1380.7	1351.0	1284.9	1227.6	1178.0	1136.1	1096.4	1082.1	1072.2	1070.0	1067.8
10°	1424.8	1387.3	1297.0	1217.6	1147.1	1089.8	1033.6	984.0	945.5	922.3	919.0
12.5°	1479.9	1425.9	1315.7	1211.0	1120.7	1019.3	870.5	770.3	703.0	682.1	685.4
15°	1530.6	1472.2	1334.5	1205.5	1072.2	845.2	676.6	562.0	527.8	524.5	525.6
17.5°	1591.2	1521.8	1356.5	1197.8	938.9	645.7	502.5	471.6	478.2	489.3	488.2
20°	1654.0	1574.7	1382.9	1151.5	749.3	486.0	444.1	447.4	457.3	467.2	469.4
22.5°	1721.2	1635.3	1413.8	1040.2	571.9	423.1	420.9	425.3	435.3	446.3	448.5
25°	1813.8	1711.3	1436.9	894.8	433.1	391.2	395.6	403.3	412.1	424.2	426.5
27.5°	1932.8	1813.8	1449.1	705.2	374.7	362.5	363.6	374.7	385.7	396.7	396.7
30°	2087.1	1936.1	1424.8	533.3	346.0	335.0	330.6	337.2	351.5	362.5	363.6
32.5°	2224.8	2051.8	1360.9	407.7	325.1	309.6	298.6	299.7	305.2	311.8	313.0
35°	2362.6	2164.2	1251.8	342.7	303.0	285.4	268.9	260.1	255.7	252.3	255.7
37.5°	2538.9	2304.2	1106.3	311.8	284.3	262.3	239.1	220.4	205.0	195.0	197.2
40°	2765.9	2498.1	934.4	292.0	266.7	240.2	209.4	185.1	158.7	149.9	145.5
42.5°	3140.5	2792.3	753.7	275.5	249.0	217.1	178.5	145.5	121.2	112.4	114.6
45°	3732.3	3163.7	580.7	257.9	231.4	191.7	149.9	114.6	94.8	90.4	92.6
47.5°	4516.9	3644.1	447.4	238.0	209.4	164.2	117.9	90.4	78.2	77.1	76.0
50°	5255.2	4091.5	373.6	216.0	182.9	136.6	97.0	76.0	68.3	67.2	67.2
52.5°	5922.9	4412.2	304.1	190.6	154.3	112.4	81.5	67.2	60.6	57.3	57.3
55°	6516.9	4621.5	246.8	159.8	121.2	89.3	70.5	60.6	52.9	48.5	47.4
57.5°	6965.4	4646.9	185.1	127.8	90.4	69.4	60.6	52.9	44.1	38.6	36.4
60°	7157.1	4427.6	136.6	97.0	67.2	55.1	48.5	43.0	33.1	27.5	26.4
62.5°	6964.3	4001.2	101.4	73.8	51.8	40.8	34.2	32.0	23.1	16.5	15.4
65°	6273.4	3385.2	80.4	56.2	38.6	29.8	22.0	20.9	14.3	7.7	6.6
67.5°	5026.0	2651.3	63.9	41.9	27.5	19.8	14.3	13.2	7.7	2.2	2.2
70°	3268.4	1694.8	51.8	30.9	17.6	13.2	8.8	6.6	4.4	1.1	0.0
72.5°	1616.5	792.3	41.9	24.2	12.1	6.6	3.3	2.2	3.3	0.0	0.0
75°	627.0	282.1	30.9	16.5	6.6	3.3	2.2	0.0	1.1	0.0	0.0
77.5°	208.3	93.7	18.7	8.8	4.4	2.2	0.0	0.0	0.0	0.0	0.0
80°	77.1	36.4	9.9	5.5	2.2	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	30.9	14.3	6.6	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.4	8.8	4.4	3.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.0	6.6	4.4	3.3	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)