

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: P648021

Luminaire Tested: **GALN-SA6A-835-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648021
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-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 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: 15360.1 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

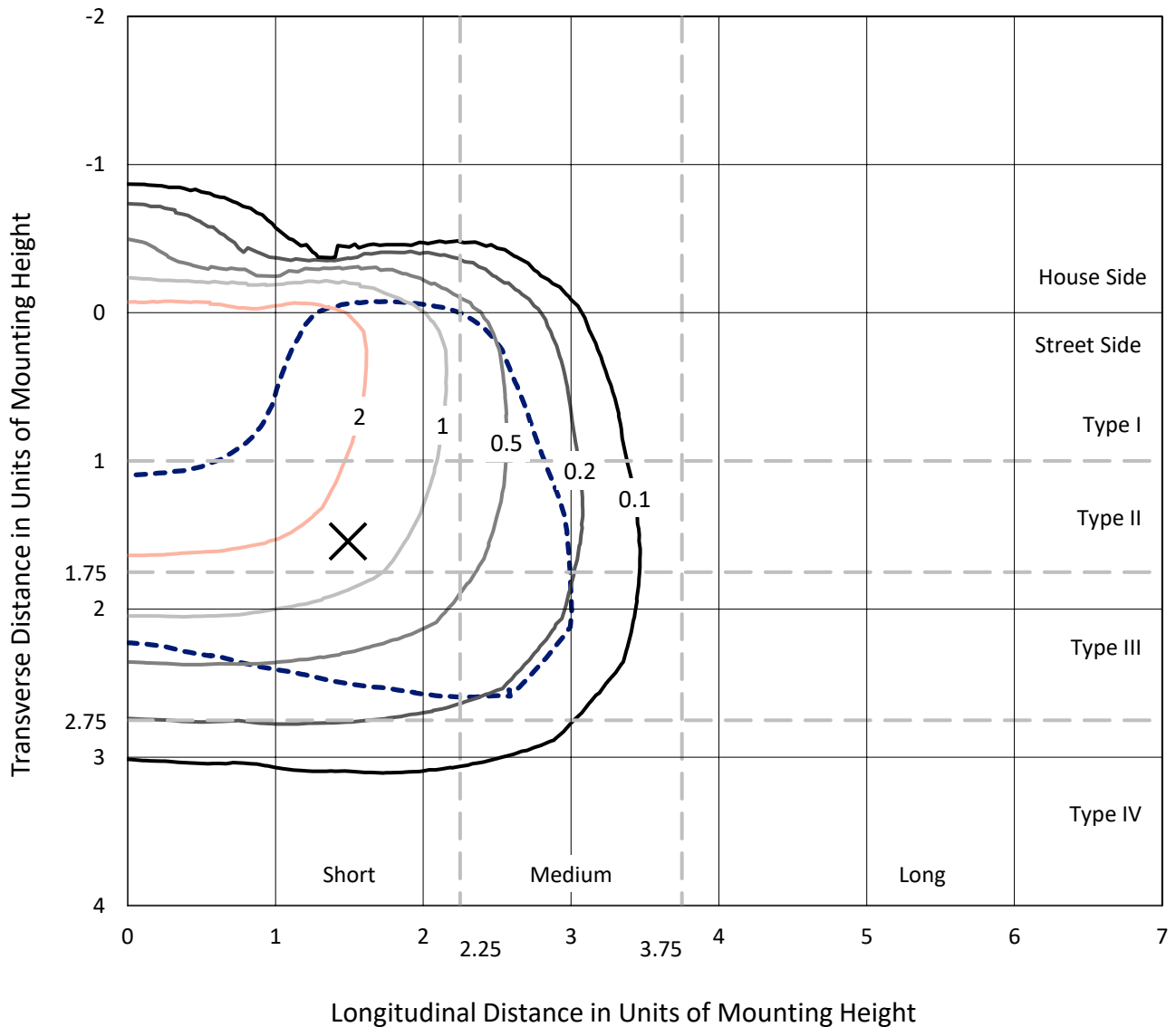
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

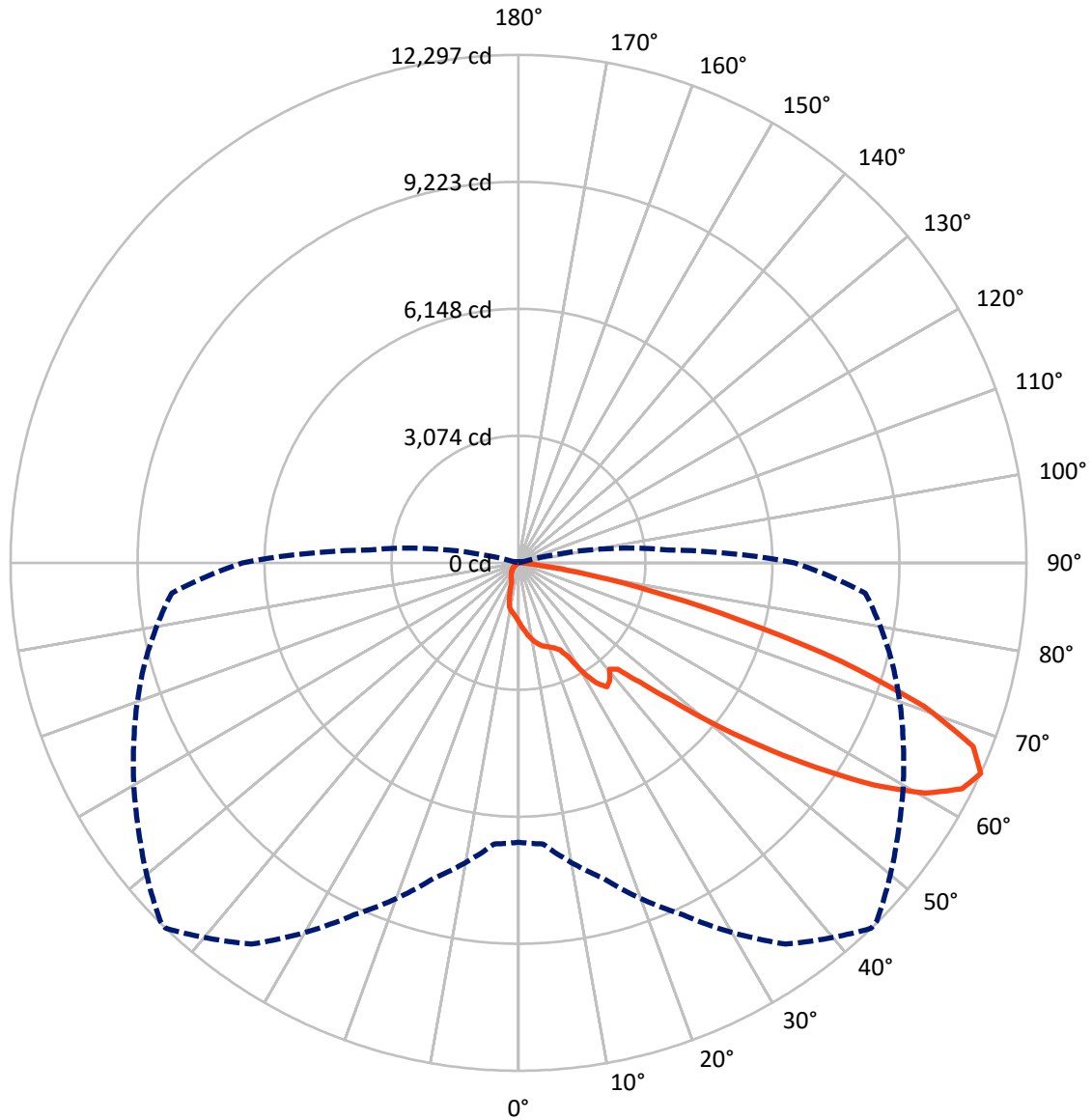
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - N/A

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CATALOG NUMBER: GALN-SA6A-835-U-T4W-HSS

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	1415.2	0.0	1415.2
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	13944.9	0.0	13944.9
	% Fixture	90.8	0.0	90.8
Total	Lumens	15360.1	0.0	15360.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.2	0.9
10°-20°	427.9	2.8
20°-30°	725.6	4.7
30°-40°	1206.5	7.9
40°-50°	2106.5	13.7
50°-60°	4115.4	26.8
60°-70°	4774.8	31.1
70°-80°	1738.7	11.3
80°-90°	122.5	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°	15360.1	100.0
0°-180°	15360.1	100.0

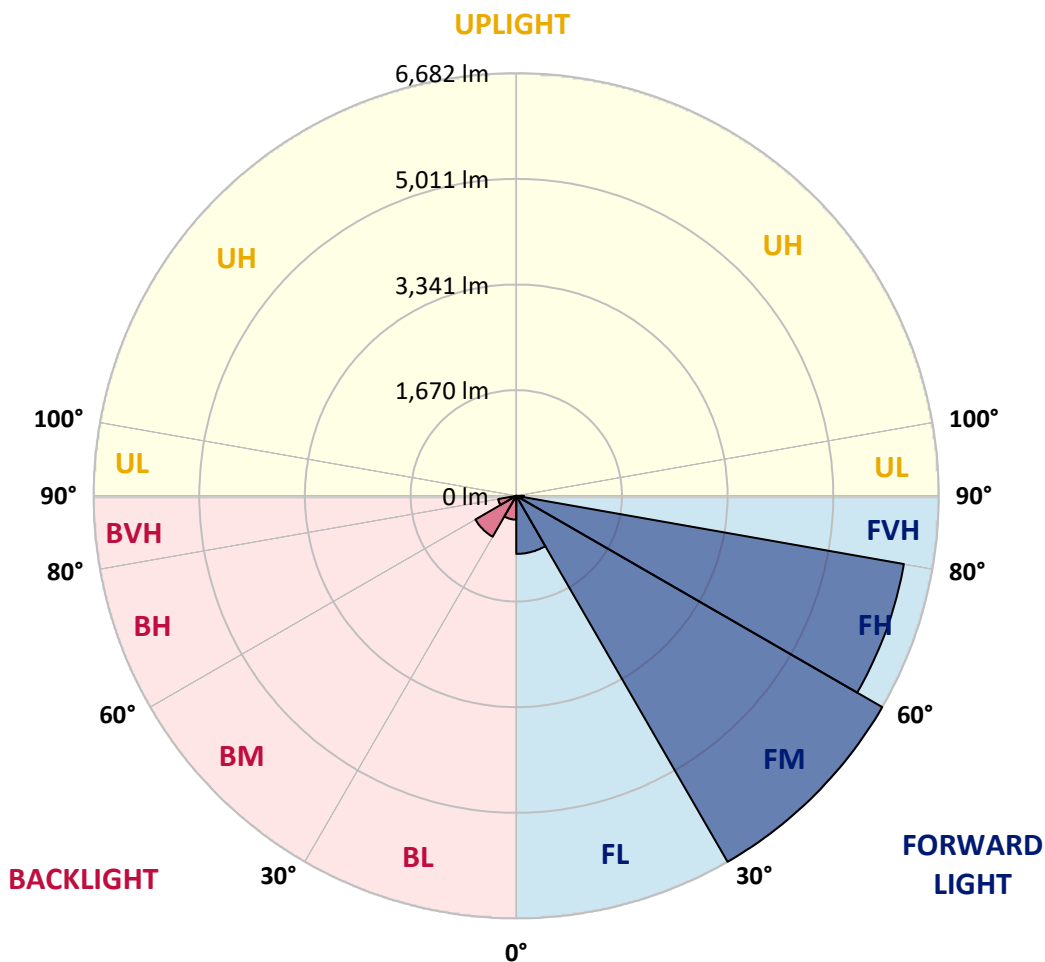


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	918.7	6.0			
FM (30°-60°)	6681.7	43.5			
FH (60°-80°)	6223.7	40.5			G3/7500
FVH (80°-90°)	120.8	0.8			G2/225
BL (0°-30°)	377.1	2.5	B1/500		
BM (30°-60°)	746.7	4.9	B1/1000		
BH (60°-80°)	289.8	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°	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6
2.5°	1609.1	1602.1	1598.6	1579.8	1565.7	1548.1	1548.1	1525.8	1500.0	1471.8	1446.0
5°	1788.7	1777.0	1761.8	1745.3	1712.4	1665.5	1665.5	1618.5	1564.5	1516.4	1463.6
7.5°	1961.3	1950.7	1924.8	1893.2	1839.2	1789.9	1786.3	1718.3	1653.8	1581.0	1505.9
10°	2112.7	2104.5	2082.2	2021.1	1964.8	1900.2	1899.0	1822.7	1747.7	1658.5	1565.7
12.5°	2218.3	2219.5	2190.1	2131.4	2058.7	1997.7	1993.0	1917.8	1839.2	1743.0	1629.1
15°	2293.4	2293.4	2262.9	2197.2	2131.4	2077.5	2072.8	2007.1	1926.0	1821.6	1698.3
17.5°	2314.5	2321.6	2288.7	2230.1	2177.2	2130.2	2129.1	2073.9	2009.4	1908.4	1768.8
20°	2306.3	2313.4	2287.5	2241.8	2205.4	2178.4	2174.9	2152.5	2092.7	1997.7	1843.9
22.5°	2288.7	2295.8	2277.0	2250.0	2232.4	2240.6	2234.8	2253.5	2221.8	2106.8	1933.1
25°	2292.2	2299.3	2285.2	2269.9	2285.2	2335.7	2351.0	2431.9	2403.7	2245.3	2029.3
27.5°	2402.6	2416.7	2396.7	2403.7	2457.8	2575.1	2604.4	2744.1	2619.7	2421.3	2179.6
30°	2647.9	2638.5	2600.9	2635.0	2822.7	3071.6	3063.3	3041.1	2846.2	2624.4	2358.0
32.5°	2870.9	2862.6	2860.3	3007.0	3347.4	3468.3	3462.4	3246.5	3049.3	2856.8	2534.0
35°	2961.2	2929.6	2922.5	3278.2	3847.4	3687.8	3651.4	3331.0	3295.7	3110.3	2713.6
37.5°	3233.6	3211.2	3102.1	3322.7	3647.8	3595.1	3566.9	3476.5	3558.7	3334.5	2916.7
40°	3794.6	3732.4	3633.7	3417.8	3365.0	3387.3	3415.4	3663.1	3869.7	3640.8	3187.7
42.5°	4491.8	4477.7	4294.6	3892.0	3496.5	3526.9	3563.4	4052.8	4316.8	4102.1	3630.2
45°	5328.6	5348.6	5084.5	4609.1	4090.3	4116.2	4169.0	4627.9	4922.5	4819.2	4326.2
47.5°	6089.2	6073.9	5984.7	5490.6	5011.7	4954.2	5039.9	5366.1	5760.5	5777.0	5190.1
50°	6854.4	6935.4	6802.8	6609.1	6253.5	6132.6	6100.9	6260.6	6861.4	6782.8	6227.7
52.5°	7954.2	7996.5	7747.6	7698.3	7779.3	7387.3	7355.6	7394.3	7931.9	7661.9	7004.6
55°	8645.5	8620.8	8528.1	8913.1	9233.5	8744.1	8704.1	8548.1	8820.3	8282.8	7752.3
57.5°	8863.8	8899.0	9115.0	9811.0	10569.2	10153.7	10080.9	9637.2	9461.2	8861.4	8440.1
60°	8766.4	8830.9	9296.9	10332.1	11383.7	11321.6	11259.3	10514.0	9921.3	9345.0	8922.4
62.5°	8072.7	8163.1	8908.4	10239.4	11659.6	12048.0	11970.6	11061.0	10227.6	9579.8	9007.0
65°	6765.2	6832.1	7902.5	9397.8	11267.5	12296.9	12268.7	11232.3	10275.8	9365.0	8428.4
67.5°	4822.7	5050.4	6042.2	7920.1	10107.9	11872.0	11920.1	11026.9	9823.9	8436.6	6980.0
70°	3031.7	3186.6	3897.9	5670.2	8103.3	10415.4	10573.9	10086.8	8525.8	6576.3	4672.5
72.5°	1446.0	1561.0	2068.1	3589.2	5719.4	8194.8	8320.4	8280.5	6592.7	4143.2	2410.8
75°	644.3	687.8	987.0	1832.1	3692.5	5508.2	5833.3	5887.3	4119.7	2027.0	937.8
77.5°	328.6	329.8	462.4	887.3	1843.9	3286.3	3350.9	3539.9	2233.6	893.2	326.3
80°	174.8	186.6	245.3	419.0	956.6	1618.5	1610.3	1770.0	990.6	437.8	109.2
82.5°	78.6	86.8	138.5	219.5	467.1	613.9	661.9	724.2	424.9	279.4	48.2
85°	23.5	28.2	68.0	110.3	169.0	177.2	198.3	255.9	240.6	198.3	24.7
87.5°	3.5	3.5	28.2	30.5	24.7	31.7	32.9	36.4	77.4	72.7	12.9
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°	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6
2.5°	1432.0	1423.7	1394.4	1369.7	1348.6	1335.6	1320.5	1311.1	1306.4	1302.8	1304.0
5°	1437.8	1417.9	1367.4	1327.4	1297.0	1264.1	1241.8	1228.8	1223.0	1213.6	1213.6
7.5°	1470.6	1438.9	1368.5	1307.5	1254.7	1210.0	1167.8	1152.6	1142.0	1139.7	1137.3
10°	1517.6	1477.7	1381.4	1297.0	1221.8	1160.8	1100.9	1048.1	1007.0	982.4	978.8
12.5°	1576.3	1518.8	1401.4	1289.9	1193.7	1085.7	927.2	820.4	748.8	726.5	730.1
15°	1630.3	1568.0	1421.4	1284.0	1142.0	900.2	720.7	598.6	562.2	558.7	559.8
17.5°	1694.8	1620.9	1444.8	1275.8	1000.0	687.8	535.2	502.4	509.4	521.1	519.9
20°	1761.8	1677.2	1473.0	1226.5	798.1	517.6	473.0	476.5	487.1	497.7	500.0
22.5°	1833.3	1741.8	1505.9	1107.9	609.2	450.7	448.3	453.0	463.6	475.4	477.7
25°	1931.9	1822.7	1530.5	953.1	461.3	416.6	421.3	429.6	438.9	451.9	454.2
27.5°	2058.7	1931.9	1543.4	751.1	399.1	386.2	387.4	399.1	410.8	422.5	422.5
30°	2223.0	2062.2	1517.6	568.1	368.6	356.8	352.1	359.2	374.4	386.2	387.4
32.5°	2369.7	2185.4	1449.5	434.3	346.2	329.8	318.1	319.2	325.1	332.1	333.3
35°	2516.4	2305.2	1333.3	365.0	322.8	304.0	286.4	277.0	272.3	268.8	272.3
37.5°	2704.2	2454.2	1178.4	332.1	302.8	279.4	254.7	234.7	218.3	207.7	210.1
40°	2946.0	2660.8	995.3	311.0	284.1	255.9	223.0	197.2	169.0	159.7	155.0
42.5°	3345.1	2974.1	802.8	293.4	265.3	231.2	190.1	155.0	129.1	119.7	122.1
45°	3975.3	3369.7	618.6	274.7	246.5	204.2	159.7	122.1	100.9	96.2	98.6
47.5°	4811.0	3881.4	476.5	253.5	223.0	174.8	125.6	96.2	83.3	82.1	81.0
50°	5597.4	4357.9	397.9	230.0	194.8	145.6	103.3	81.0	72.7	71.6	71.6
52.5°	6308.6	4699.5	323.9	203.0	164.4	119.7	86.8	71.6	64.5	61.0	61.0
55°	6941.3	4922.5	262.9	170.2	129.1	95.1	75.1	64.5	56.4	51.7	50.5
57.5°	7419.0	4949.5	197.2	136.2	96.2	73.9	64.5	56.4	47.0	41.1	38.8
60°	7623.2	4715.9	145.6	103.3	71.6	58.6	51.7	45.8	35.2	29.4	28.2
62.5°	7417.8	4261.7	108.0	78.6	55.2	43.5	36.4	34.1	24.7	17.6	16.4
65°	6681.9	3605.6	85.7	59.8	41.1	31.7	23.5	22.3	15.3	8.2	7.0
67.5°	5353.2	2823.9	68.0	44.6	29.4	21.1	15.3	14.1	8.2	2.3	2.3
70°	3481.2	1805.1	55.2	32.9	18.8	14.1	9.4	7.0	4.7	1.2	0.0
72.5°	1721.8	843.9	44.6	25.8	12.9	7.0	3.5	2.3	3.5	0.0	0.0
75°	667.8	300.4	32.9	17.6	7.0	3.5	2.3	0.0	1.2	0.0	0.0
77.5°	221.8	99.8	20.0	9.4	4.7	2.3	0.0	0.0	0.0	0.0	0.0
80°	82.1	38.8	10.6	5.9	2.3	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	32.9	15.3	7.0	4.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.4	9.4	4.7	3.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.7	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)