

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: P452556

Luminaire Tested: **GALN-SA3C-730-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14288 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

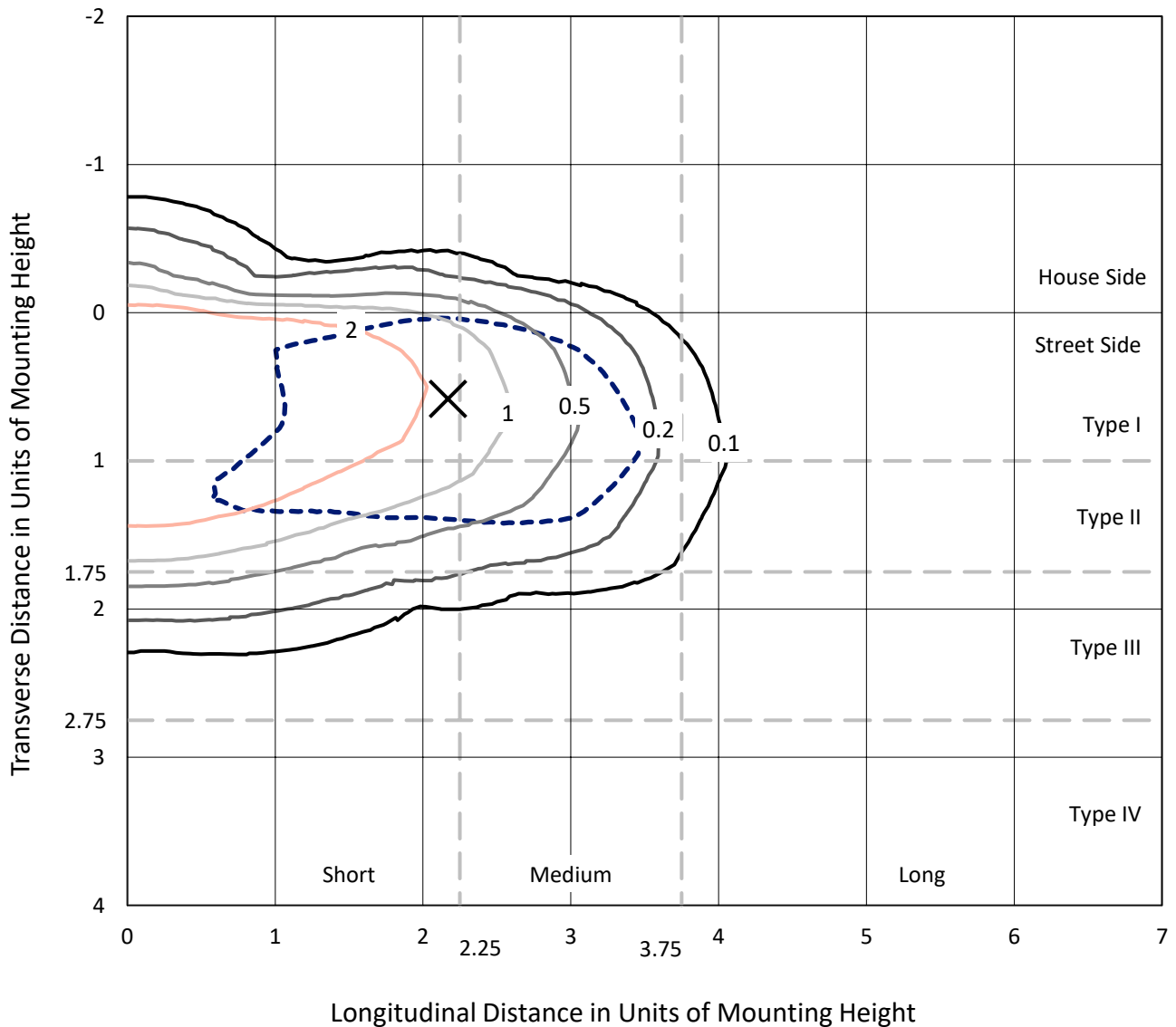
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

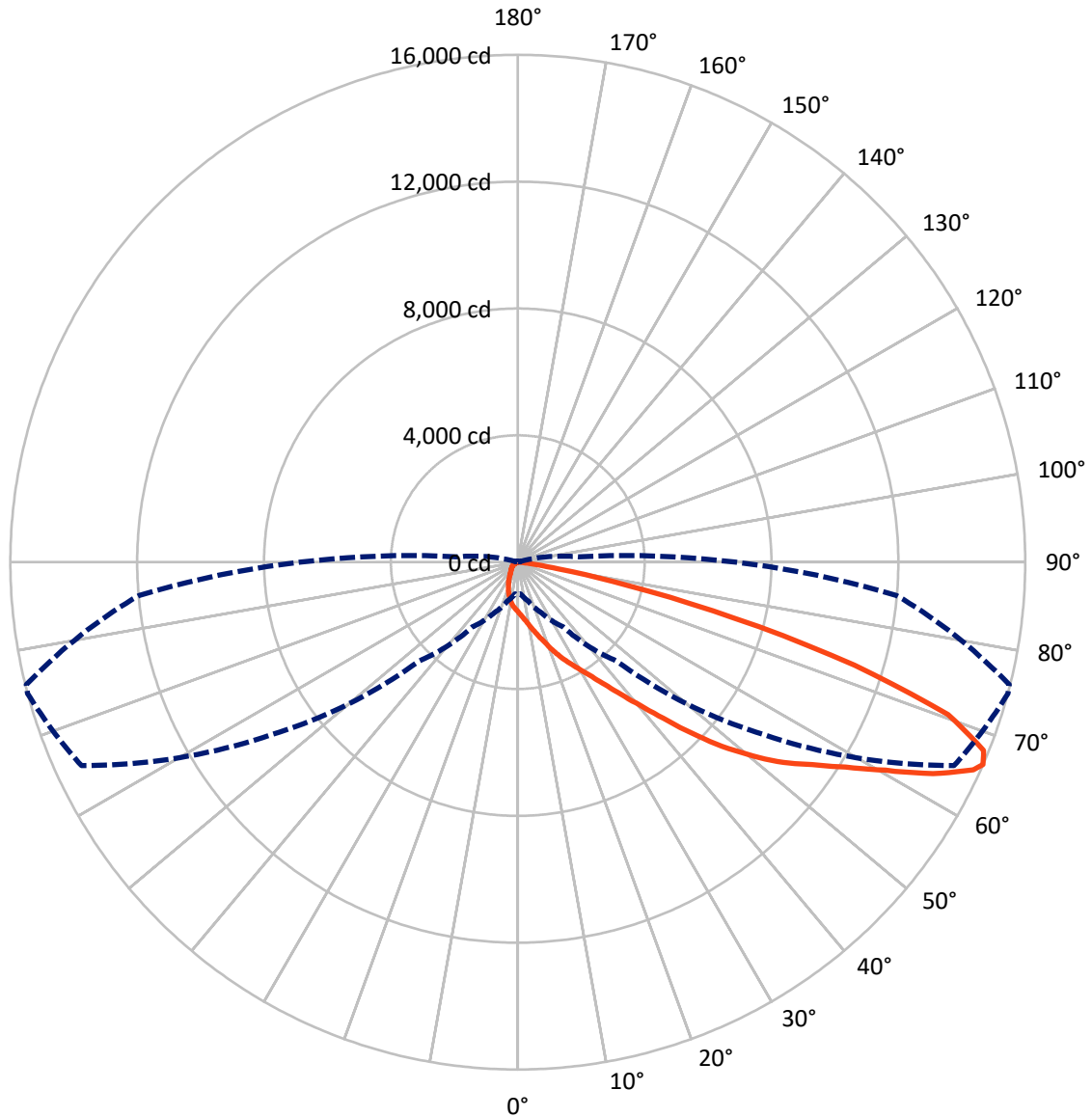
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	882.1	0.0	882.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	13405.9	0.0	13405.9
	% Fixture	93.8	0.0	93.8
Total	Lumens	14288.0	0.0	14288.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.7	1.1
10°-20°	443.5	3.1
20°-30°	765.9	5.4
30°-40°	1381.5	9.7
40°-50°	2495.8	17.5
50°-60°	3890.9	27.2
60°-70°	3696.2	25.9
70°-80°	1385.3	9.7
80°-90°	78.2	0.5
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°	14288.0	100.0
0°-180°	14288.0	100.0

Coefficient of Utilization



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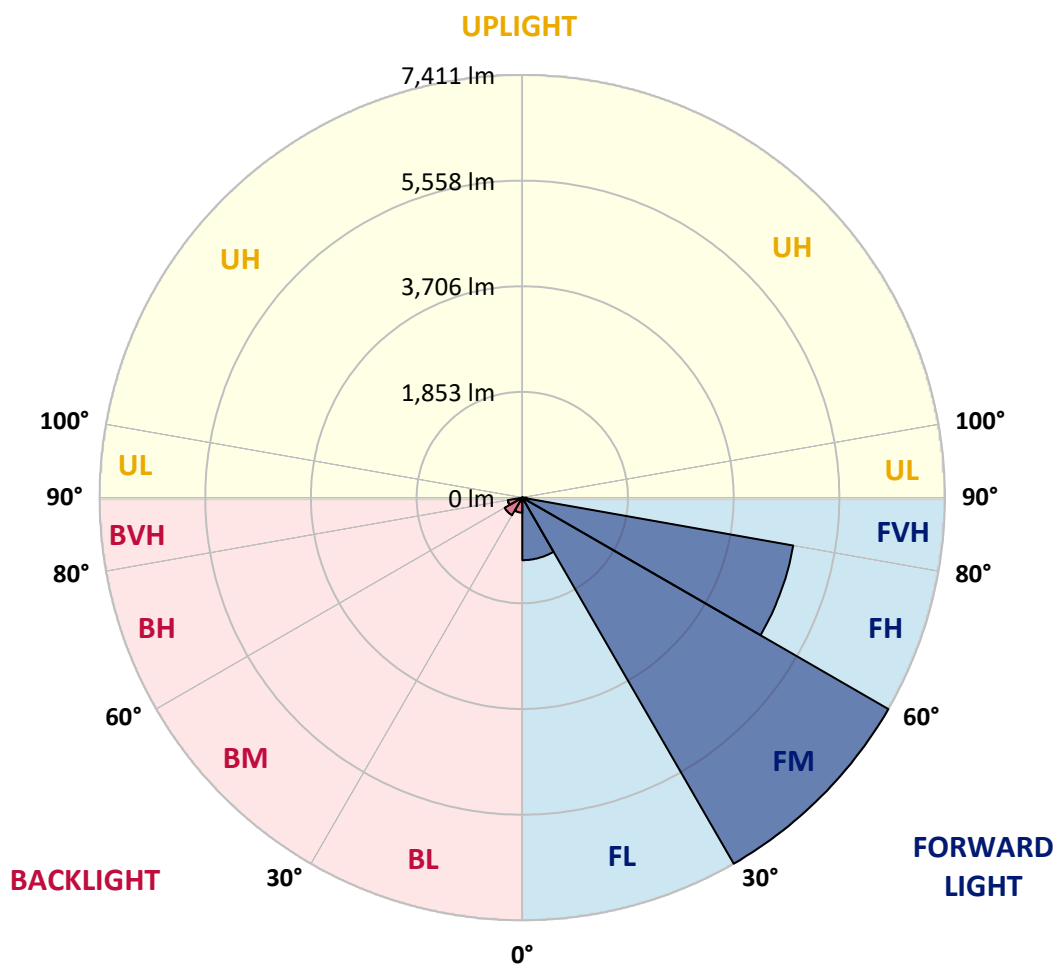
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1096.7	7.7			
FM (30°-60°)	7411.2	51.9			
FH (60°-80°)	4823.9	33.8			G2/5000
FVH (80°-90°)	74.1	0.5			G1/100
BL (0°-30°)	263.4	1.8	B1/500		
BM (30°-60°)	357.0	2.5	B1/1000		
BH (60°-80°)	257.6	1.8	B1/500		G1/500
BVH (80°-90°)	4.0	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5
2.5°	1866.8	1843.6	1851.0	1840.4	1816.1	1780.2	1748.5	1703.0	1657.6	1650.2	1599.5
5°	2113.0	2106.6	2098.2	2067.5	2050.6	1995.7	1930.2	1852.0	1758.0	1741.1	1649.2
7.5°	2280.9	2277.8	2282.0	2266.1	2251.4	2201.7	2132.0	2025.3	1879.5	1870.0	1716.8
10°	2335.9	2344.3	2360.2	2385.5	2408.8	2392.9	2340.1	2207.0	2036.9	2009.4	1793.9
12.5°	2304.2	2313.7	2351.7	2419.3	2494.3	2537.7	2516.5	2419.3	2203.8	2181.6	1880.5
15°	2222.8	2234.5	2288.3	2392.9	2527.1	2649.7	2702.5	2632.7	2398.2	2362.3	1985.1
17.5°	2102.4	2119.3	2196.4	2334.8	2518.6	2729.9	2878.9	2855.7	2605.3	2571.5	2099.2
20°	2011.5	2024.2	2089.7	2248.2	2482.7	2774.3	3046.9	3112.4	2860.9	2802.8	2233.4
22.5°	2071.8	2076.0	2098.2	2193.3	2418.3	2785.9	3194.8	3379.7	3132.5	3080.7	2372.9
25°	2366.5	2324.3	2302.1	2280.9	2404.5	2775.4	3329.0	3658.6	3402.9	3348.0	2511.3
27.5°	2831.4	2812.3	2700.4	2550.3	2521.8	2789.1	3417.7	3922.7	3657.5	3598.4	2646.5
30°	3337.4	3304.7	3236.0	3016.3	2795.4	2886.3	3482.2	4179.4	3958.6	3880.5	2770.1
32.5°	3802.3	3823.4	3720.9	3494.8	3239.2	3093.4	3565.6	4459.4	4304.1	4206.9	2913.8
35°	4344.2	4386.5	4229.1	4012.5	3713.5	3467.4	3728.3	4775.3	4742.5	4620.0	3135.6
37.5°	4894.7	4920.0	4823.9	4519.6	4250.2	3942.8	4034.7	5165.1	5282.4	5177.8	3400.8
40°	5357.4	5392.3	5321.5	5051.0	4763.7	4493.2	4479.5	5589.8	5924.7	5817.0	3795.9
42.5°	5711.3	5737.7	5739.9	5548.6	5289.8	5167.2	5046.8	6131.8	6729.8	6605.1	4254.4
45°	6158.2	6196.3	6174.1	6044.1	5850.8	5828.6	5766.3	6786.8	7693.3	7535.9	4849.2
47.5°	6849.2	6874.5	6819.6	6666.4	6469.9	6504.7	6467.8	7521.1	8675.8	8540.6	5465.2
50°	7328.8	7371.1	7449.2	7510.5	7367.9	7239.0	7129.1	8206.7	9608.7	9487.2	6094.8
52.5°	7323.5	7393.2	7640.5	7949.0	8260.6	8221.5	7905.6	8964.2	10499.3	10349.3	6686.5
55°	6830.1	6965.4	7328.8	7876.1	8739.2	9169.2	9025.5	9841.1	11268.4	11167.0	7372.1
57.5°	5811.7	5894.1	6399.1	7164.0	8471.9	9615.0	10322.9	11029.7	12190.7	12143.2	8437.0
60°	3909.0	3946.0	4595.7	5541.2	7212.6	9170.2	11273.7	12467.5	13326.4	13303.2	9680.5
62.5°	2239.7	2255.6	2726.8	3524.4	5132.4	7771.5	11354.0	14241.4	14688.2	14700.9	11119.5
65°	1205.4	1213.9	1594.2	2068.6	3123.0	5539.1	10209.8	15213.3	15789.1	15813.4	12011.1
66°	1040.6	1000.5	1268.8	1763.3	2484.8	4408.7	9486.1	15178.4	16000.4	15974.0	11979.4
67.5°	791.3	827.2	1013.2	1355.5	1841.4	3134.6	7831.7	14503.4	15839.8	15757.4	11492.4
70°	566.3	581.1	721.6	966.7	1254.0	1719.9	5004.5	12046.0	14396.7	14285.7	10012.3
72.5°	365.5	381.4	511.3	699.4	906.5	939.2	2801.8	8703.3	11099.4	11083.5	7540.1
75°	261.0	275.7	338.1	500.8	681.4	581.1	1349.1	5865.6	7056.2	7008.7	4664.4
77.5°	189.1	196.5	226.1	327.5	487.0	416.3	625.4	3132.5	3512.8	3678.7	2061.2
80°	108.8	115.2	157.4	199.7	329.6	284.2	299.0	1257.2	1296.3	1234.0	644.5
82.5°	53.9	61.3	94.0	136.3	206.0	191.2	137.3	378.2	399.3	388.8	162.7
85°	12.7	15.8	52.8	89.8	100.4	85.6	66.6	110.9	137.3	134.2	62.3
87.5°	1.1	2.1	19.0	15.8	16.9	28.5	23.2	28.5	44.4	41.2	22.2
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°	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5
2.5°	1576.3	1556.2	1498.1	1441.0	1393.5	1343.8	1298.4	1272.0	1261.4	1249.8	1255.1
5°	1598.5	1549.9	1432.6	1331.2	1231.9	1147.3	1079.7	1036.4	1015.3	1012.1	1006.8
7.5°	1628.0	1544.6	1362.9	1204.4	1074.4	980.4	903.3	841.0	821.9	805.0	791.3
10°	1664.0	1535.1	1276.2	1071.3	932.9	814.5	713.1	639.2	601.1	590.6	598.0
12.5°	1702.0	1517.1	1185.4	948.7	789.2	638.1	544.1	507.1	496.5	492.3	493.4
15°	1740.0	1494.9	1090.3	830.4	628.6	509.2	465.9	456.4	452.2	450.1	447.9
17.5°	1774.9	1459.0	983.6	715.2	509.2	435.3	419.4	411.0	402.5	399.3	394.1
20°	1816.1	1417.8	887.4	586.3	431.0	394.1	375.1	359.2	346.5	338.1	337.0
22.5°	1855.2	1365.0	787.1	486.0	393.0	353.9	323.3	306.4	291.6	281.0	284.2
25°	1876.3	1300.5	697.3	423.6	358.1	313.8	280.0	258.8	243.0	237.7	236.7
27.5°	1876.3	1221.3	609.6	387.7	326.5	277.9	243.0	222.9	212.4	205.0	206.0
30°	1861.5	1133.6	528.2	360.3	299.0	246.2	213.4	195.4	187.0	181.7	180.7
32.5°	1849.9	1050.1	458.5	333.8	270.5	218.7	190.2	176.4	168.0	162.7	162.7
35°	1867.9	978.3	404.6	307.4	244.0	197.6	172.2	159.5	151.1	146.9	145.8
37.5°	1915.4	912.8	363.4	278.9	219.7	179.6	159.5	144.7	136.3	131.0	128.9
40°	2032.7	875.8	332.8	252.5	196.5	164.8	144.7	131.0	120.4	115.2	114.1
42.5°	2220.7	876.9	303.2	228.2	178.5	152.1	132.1	116.2	104.6	99.3	98.3
45°	2503.9	917.0	280.0	205.0	162.7	138.4	118.3	101.4	90.9	85.6	85.6
47.5°	2843.0	995.2	259.9	184.9	147.9	125.7	104.6	87.7	77.1	72.9	72.9
50°	3210.6	1096.6	239.8	163.8	135.2	112.0	89.8	76.1	67.6	64.4	64.4
52.5°	3585.7	1219.2	219.7	146.9	121.5	97.2	77.1	67.6	60.2	58.1	57.0
55°	4078.0	1375.5	198.6	128.9	106.7	83.5	68.7	59.2	50.7	47.5	46.5
57.5°	4835.5	1611.1	175.4	113.0	87.7	69.7	59.2	49.7	40.1	34.9	33.8
60°	5749.4	1898.5	151.1	99.3	70.8	57.0	47.5	38.0	29.6	23.2	22.2
62.5°	6605.1	2081.3	127.8	83.5	56.0	43.3	33.8	28.5	21.1	14.8	13.7
65°	6983.3	2020.0	105.6	67.6	44.4	30.6	22.2	20.1	12.7	6.3	5.3
66°	6857.6	1929.1	97.2	61.3	40.1	26.4	19.0	16.9	9.5	3.2	3.2
67.5°	6486.8	1714.7	84.5	52.8	34.9	21.1	14.8	12.7	5.3	1.1	0.0
70°	5558.1	1387.2	66.6	39.1	25.4	14.8	8.5	6.3	3.2	0.0	0.0
72.5°	4269.2	1033.2	52.8	29.6	18.0	8.5	4.2	2.1	3.2	0.0	0.0
75°	2615.8	590.6	41.2	22.2	11.6	5.3	3.2	0.0	3.2	1.1	0.0
77.5°	1161.1	265.2	27.5	14.8	8.5	4.2	2.1	0.0	2.1	1.1	0.0
80°	293.7	86.6	15.8	10.6	6.3	3.2	1.1	0.0	2.1	2.1	1.1
82.5°	80.3	31.7	11.6	8.5	5.3	3.2	1.1	0.0	2.1	2.1	2.1
85°	31.7	14.8	10.6	8.5	6.3	3.2	1.1	0.0	2.1	2.1	2.1
87.5°	14.8	10.6	10.6	9.5	7.4	3.2	1.1	0.0	2.1	1.1	2.1
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)