

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: P651250

Luminaire Tested: **GALN-SA2D-840-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651250  
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-SA2D-840-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1200mA 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: 9780.8 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

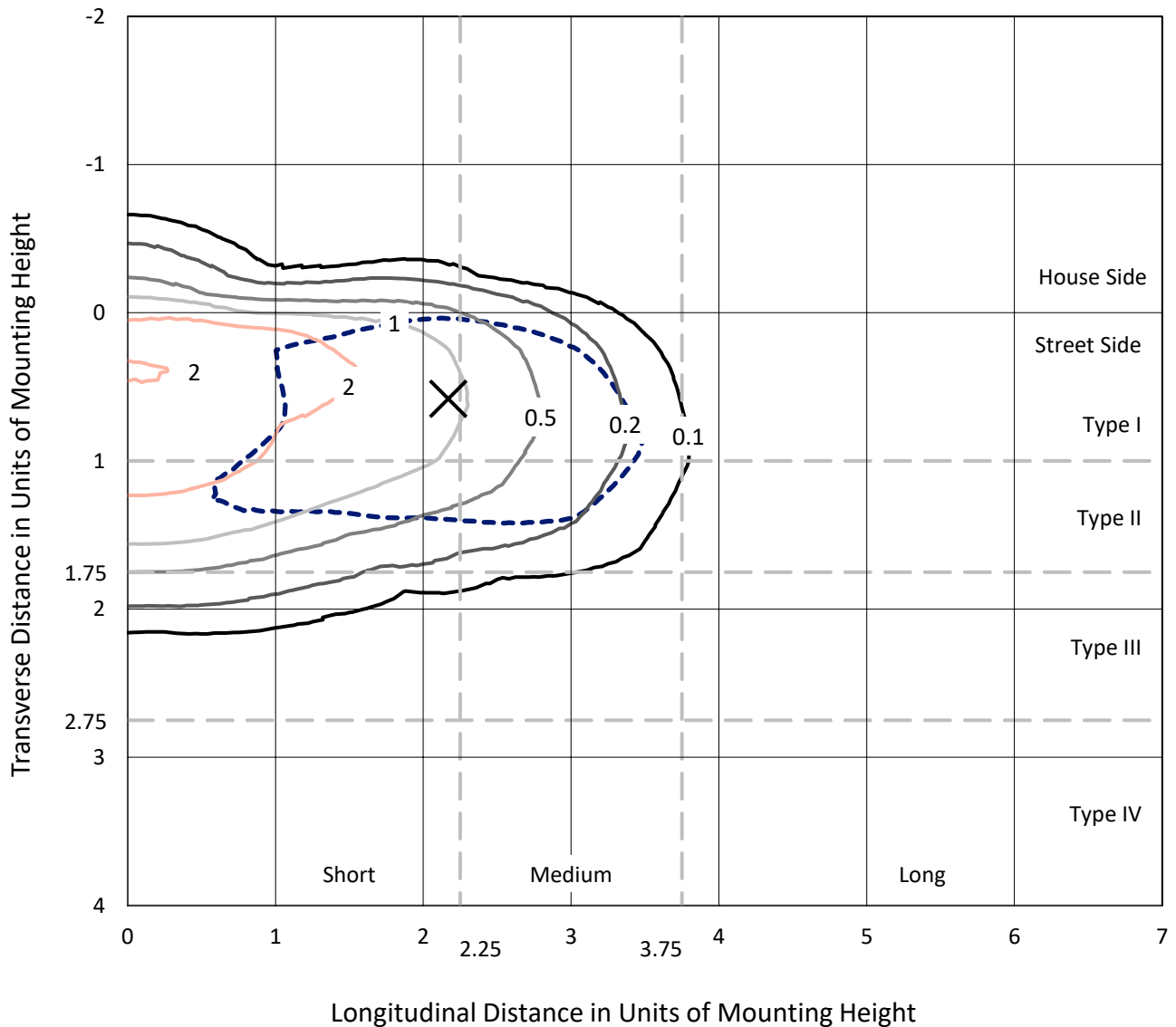
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

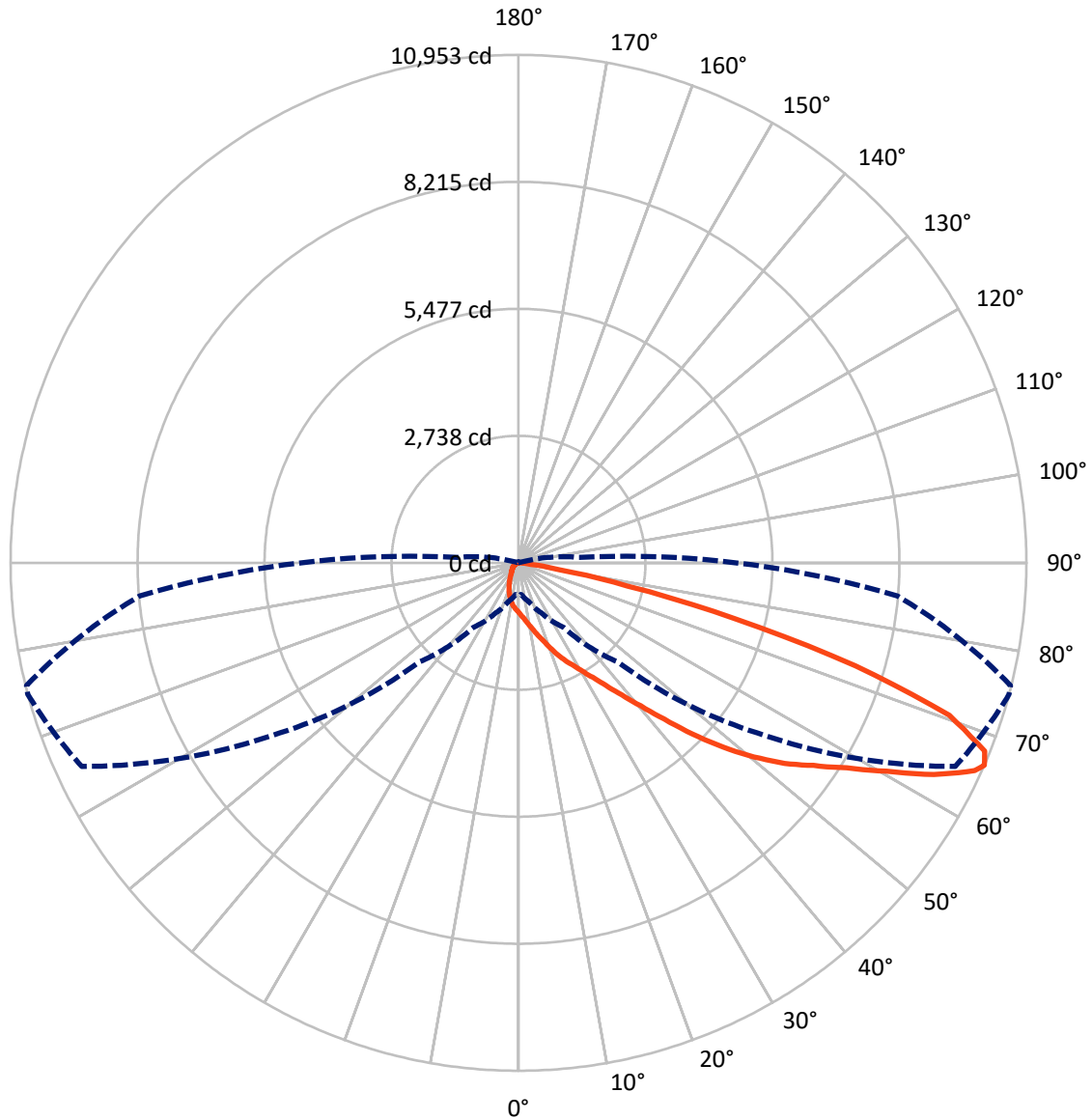
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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
<b>House Side</b>	Lumens	603.8	0.0	603.8
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	9177.0	0.0	9177.0
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	9780.8	0.0	9780.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.2	1.1
10°-20°	303.6	3.1
20°-30°	524.3	5.4
30°-40°	945.7	9.7
40°-50°	1708.5	17.5
50°-60°	2663.5	27.2
60°-70°	2530.2	25.9
70°-80°	948.3	9.7
80°-90°	53.5	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°	9780.8	100.0
0°-180°	9780.8	100.0

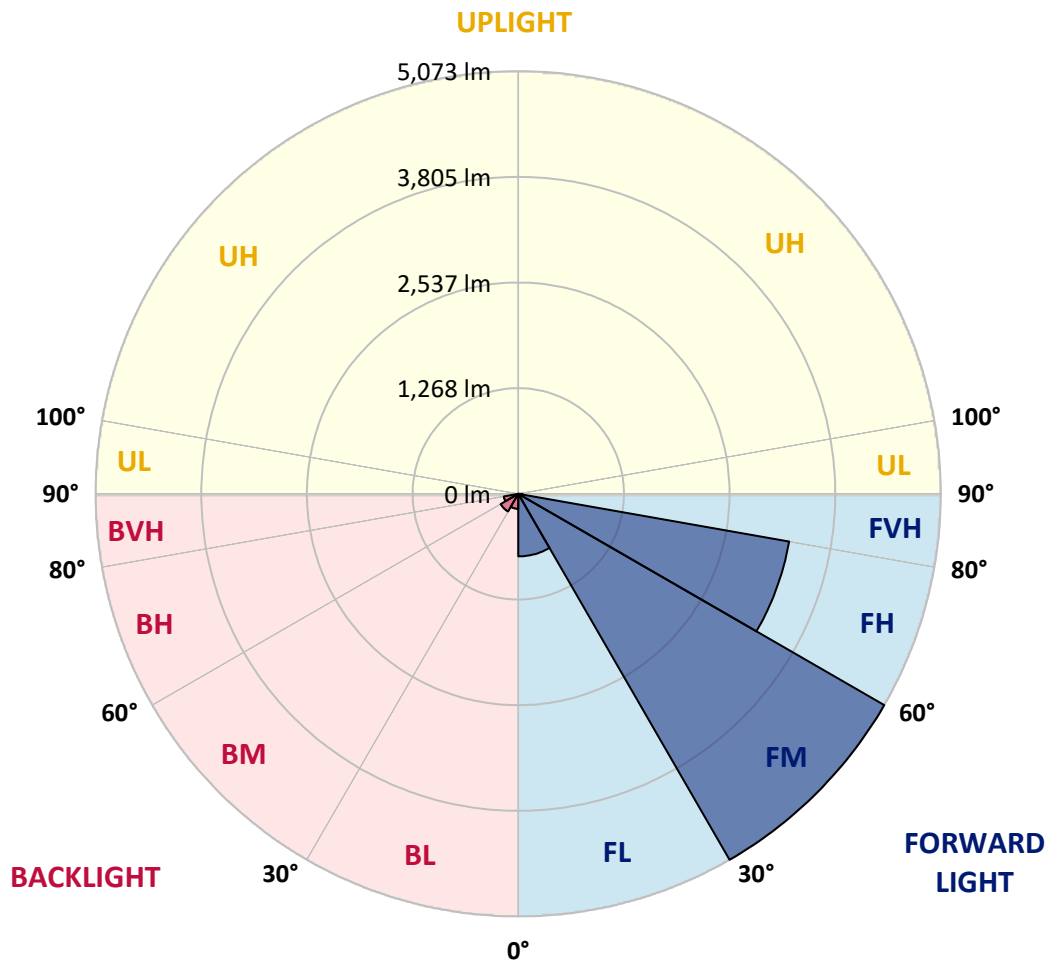


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	750.8	7.7			
FM (30°-60°)	5073.3	51.9			
FH (60°-80°)	3302.2	33.8			G2/5000
FVH (80°-90°)	50.7	0.5			G1/100
BL (0°-30°)	180.3	1.8	B1/500		
BM (30°-60°)	244.4	2.5	B1/1000		
BH (60°-80°)	176.3	1.8	B1/500		G1/500
BVH (80°-90°)	2.8	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°	1069.7	1069.7	1069.7	1069.7	1069.7	1069.7	1069.7	1069.7	1069.7	1069.7	1069.7
2.5°	1277.9	1262.0	1267.1	1259.8	1243.2	1218.6	1196.9	1165.8	1134.8	1129.6	1095.0
5°	1446.4	1442.1	1436.3	1415.3	1403.7	1366.1	1321.3	1267.8	1203.4	1191.9	1129.0
7.5°	1561.4	1559.2	1562.2	1551.3	1541.1	1507.2	1459.5	1386.4	1286.6	1280.1	1175.2
10°	1599.0	1604.8	1615.6	1633.1	1648.9	1638.1	1601.9	1510.8	1394.4	1375.5	1228.0
12.5°	1577.3	1583.9	1609.8	1656.2	1707.5	1737.2	1722.7	1656.2	1508.6	1493.4	1287.3
15°	1521.6	1529.6	1566.4	1638.1	1729.9	1813.8	1849.9	1802.3	1641.7	1617.1	1358.9
17.5°	1439.2	1450.7	1503.5	1598.3	1724.1	1868.8	1970.7	1954.8	1783.4	1760.3	1437.0
20°	1377.0	1385.7	1430.5	1539.0	1699.6	1899.1	2085.8	2130.6	1958.4	1918.7	1528.9
22.5°	1418.2	1421.1	1436.3	1501.4	1655.4	1907.1	2187.0	2313.6	2144.3	2108.9	1624.3
25°	1620.0	1591.1	1575.9	1561.4	1646.0	1899.9	2278.9	2504.5	2329.5	2291.9	1719.1
27.5°	1938.2	1925.2	1848.5	1745.8	1726.3	1909.2	2339.6	2685.3	2503.7	2463.3	1811.7
30°	2284.7	2262.2	2215.2	2064.7	1913.6	1975.8	2383.7	2861.0	2709.9	2656.4	1896.3
32.5°	2602.8	2617.3	2547.1	2392.4	2217.4	2117.6	2440.8	3052.7	2946.4	2879.8	1994.6
35°	2973.9	3002.8	2895.1	2746.8	2542.1	2373.6	2552.2	3268.9	3246.5	3162.6	2146.5
37.5°	3350.6	3368.0	3302.2	3093.9	2909.5	2699.0	2761.9	3535.8	3616.0	3544.5	2328.1
40°	3667.4	3691.2	3642.8	3457.7	3261.0	3075.8	3066.5	3826.6	4055.8	3982.0	2598.5
42.5°	3909.7	3927.7	3929.2	3798.3	3621.1	3537.2	3454.7	4197.5	4606.8	4521.6	2912.4
45°	4215.6	4241.7	4226.4	4137.5	4005.2	3990.0	3947.3	4645.9	5266.4	5158.7	3319.5
47.5°	4688.6	4705.9	4668.3	4563.4	4429.0	4452.8	4427.5	5148.5	5939.1	5846.5	3741.2
50°	5016.9	5045.8	5099.4	5141.3	5043.6	4955.4	4880.2	5617.9	6577.6	6494.5	4172.2
52.5°	5013.3	5061.1	5230.3	5441.4	5654.8	5628.1	5411.8	6136.4	7187.3	7084.6	4577.2
55°	4675.5	4768.1	5016.9	5391.6	5982.4	6276.7	6178.4	6736.7	7713.8	7644.4	5046.6
57.5°	3978.4	4034.8	4380.5	4904.1	5799.5	6581.9	7066.5	7550.3	8345.2	8312.6	5775.6
60°	2675.9	2701.2	3146.0	3793.2	4937.3	6277.5	7717.4	8534.6	9122.6	9106.7	6626.8
62.5°	1533.2	1544.1	1866.6	2412.7	3513.4	5319.9	7772.4	9748.9	10054.8	10063.5	7611.8
65°	825.2	831.0	1091.4	1416.1	2137.8	3791.8	6989.1	10414.3	10808.4	10825.0	8222.2
66°	712.3	684.9	868.6	1207.0	1701.0	3017.9	6493.7	10390.4	10953.0	10934.9	8200.5
67.5°	541.7	566.2	693.6	927.9	1260.6	2145.8	5361.2	9928.3	10843.1	10786.7	7867.1
70°	387.6	397.8	493.9	661.7	858.5	1177.4	3425.8	8246.1	9855.2	9779.2	6853.9
72.5°	250.2	261.0	350.0	478.8	620.5	642.9	1918.0	5957.8	7598.1	7587.2	5161.6
75°	178.6	188.7	231.4	342.8	466.5	397.8	923.5	4015.3	4830.4	4797.8	3192.9
77.5°	129.4	134.5	154.7	224.2	333.4	284.9	428.2	2144.3	2404.7	2518.2	1410.9
80°	74.5	78.8	107.7	136.7	225.6	194.5	204.7	860.6	887.3	844.7	441.2
82.5°	36.9	42.0	64.3	93.3	141.0	130.9	94.0	258.9	273.4	266.2	111.3
85°	8.7	10.8	36.2	61.5	68.7	58.6	45.6	75.9	94.0	91.8	42.6
87.5°	0.8	1.4	13.0	10.8	11.6	19.5	15.9	19.5	30.4	28.2	15.2
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°	1069.7	1069.7	1069.7	1069.7	1069.7	1069.7	1069.7	1069.7	1069.7	1069.7	1069.7
2.5°	1079.0	1065.3	1025.5	986.5	953.9	919.9	888.9	870.8	863.5	855.5	859.2
5°	1094.2	1060.9	980.7	911.2	843.3	785.4	739.2	709.5	695.0	692.8	689.2
7.5°	1114.5	1057.3	932.9	824.4	735.5	671.1	618.4	575.7	562.6	551.1	541.7
10°	1139.1	1050.8	873.6	733.4	638.6	557.6	488.2	437.6	411.5	404.3	409.3
12.5°	1165.1	1038.6	811.5	649.4	540.3	436.8	372.5	347.2	339.9	337.0	337.7
15°	1191.1	1023.3	746.4	568.4	430.3	348.6	318.9	312.4	309.6	308.1	306.6
17.5°	1215.0	998.8	673.3	489.6	348.6	298.0	287.1	281.3	275.5	273.4	269.8
20°	1243.2	970.5	607.5	401.4	295.1	269.8	256.8	245.9	237.2	231.4	230.7
22.5°	1270.0	934.4	538.8	332.7	269.0	242.3	221.3	209.7	199.6	192.3	194.5
25°	1284.5	890.3	477.4	290.0	245.2	214.8	191.7	177.2	166.3	162.7	162.0
27.5°	1284.5	836.0	417.3	265.4	223.5	190.2	166.3	152.6	145.3	140.3	141.0
30°	1274.3	776.0	361.6	246.6	204.7	168.5	146.1	133.8	128.0	124.4	123.7
32.5°	1266.4	718.9	313.9	228.5	185.1	149.7	130.2	120.8	115.0	111.3	111.3
35°	1278.7	669.7	277.0	210.4	167.0	135.2	117.9	109.2	103.4	100.5	99.8
37.5°	1311.2	624.9	248.8	190.9	150.5	123.0	109.2	99.1	93.3	89.7	88.2
40°	1391.4	599.5	227.8	172.8	134.5	112.9	99.1	89.7	82.4	78.8	78.1
42.5°	1520.2	600.3	207.6	156.2	122.2	104.1	90.4	79.6	71.6	68.0	67.3
45°	1714.0	627.7	191.7	140.3	111.3	94.8	81.0	69.5	62.2	58.6	58.6
47.5°	1946.2	681.3	177.9	126.6	101.3	86.0	71.6	60.0	52.8	49.9	49.9
50°	2197.9	750.7	164.2	112.1	92.6	76.7	61.5	52.1	46.3	44.2	44.2
52.5°	2454.5	834.6	150.5	100.5	83.2	66.5	52.8	46.3	41.2	39.8	39.0
55°	2791.6	941.6	136.0	88.2	73.1	57.1	47.0	40.5	34.7	32.5	31.8
57.5°	3310.2	1102.9	120.1	77.4	60.0	47.8	40.5	34.0	27.5	23.9	23.1
60°	3935.7	1299.6	103.4	68.0	48.4	39.0	32.5	26.1	20.3	15.9	15.2
62.5°	4521.6	1424.7	87.5	57.1	38.3	29.7	23.1	19.5	14.5	10.1	9.4
65°	4780.4	1382.8	72.3	46.3	30.4	20.9	15.2	13.7	8.7	4.4	3.6
66°	4694.4	1320.6	66.5	42.0	27.5	18.1	13.0	11.6	6.5	2.2	2.2
67.5°	4440.5	1173.8	57.9	36.2	23.9	14.5	10.1	8.7	3.6	0.8	0.0
70°	3804.9	949.6	45.6	26.7	17.3	10.1	5.8	4.4	2.2	0.0	0.0
72.5°	2922.5	707.3	36.2	20.3	12.3	5.8	2.9	1.4	2.2	0.0	0.0
75°	1790.7	404.3	28.2	15.2	8.0	3.6	2.2	0.0	2.2	0.8	0.0
77.5°	794.8	181.5	18.8	10.1	5.8	2.9	1.4	0.0	1.4	0.8	0.0
80°	201.1	59.3	10.8	7.2	4.4	2.2	0.8	0.0	1.4	1.4	0.8
82.5°	55.0	21.7	8.0	5.8	3.6	2.2	0.8	0.0	1.4	1.4	1.4
85°	21.7	10.1	7.2	5.8	4.4	2.2	0.8	0.0	1.4	1.4	1.4
87.5°	10.1	7.2	7.2	6.5	5.0	2.2	0.8	0.0	1.4	0.8	1.4
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)