

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: P451454

Luminaire Tested: **GALN-SA2B-750-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451454  
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-SA2B-750-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 800mA 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: 8554 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

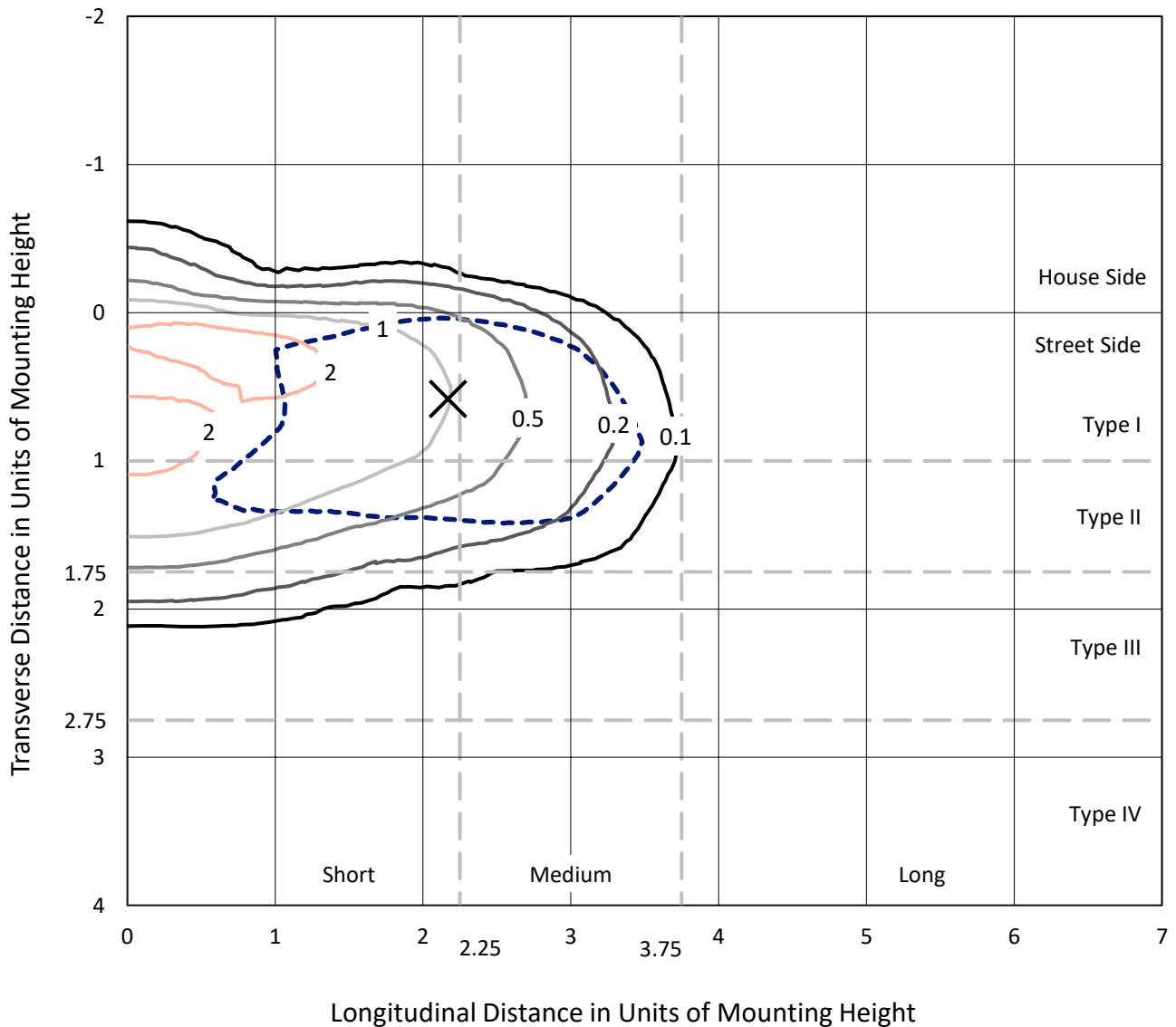
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

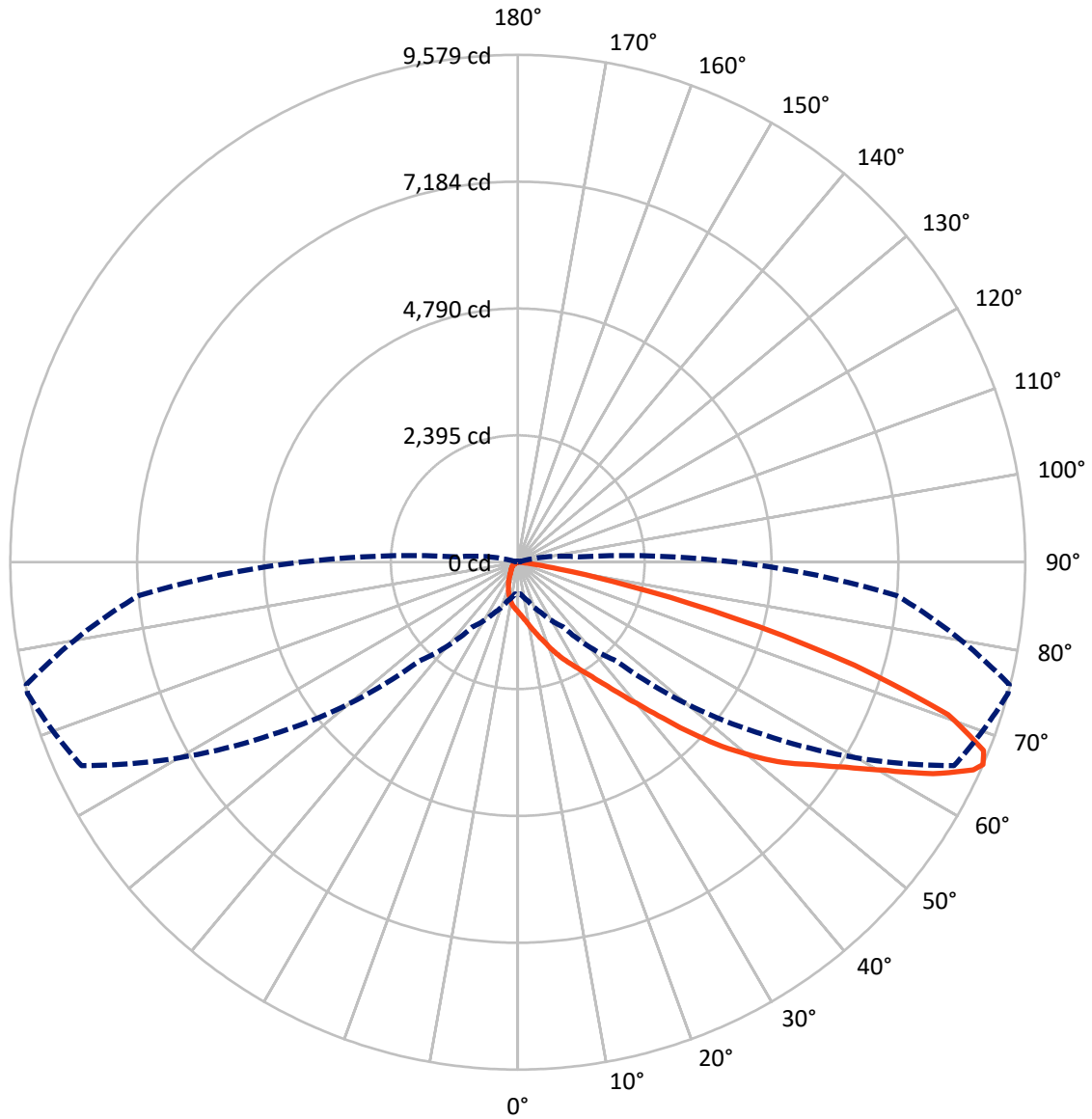
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	528.1	0.0	528.1
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	8025.9	0.0	8025.9
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	8554.0	0.0	8554.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.2	1.1
10°-20°	265.5	3.1
20°-30°	458.5	5.4
30°-40°	827.1	9.7
40°-50°	1494.2	17.5
50°-60°	2329.4	27.2
60°-70°	2212.9	25.9
70°-80°	829.3	9.7
80°-90°	46.8	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°	8554.0	100.0
0°-180°	8554.0	100.0

**Coefficient of Utilization**



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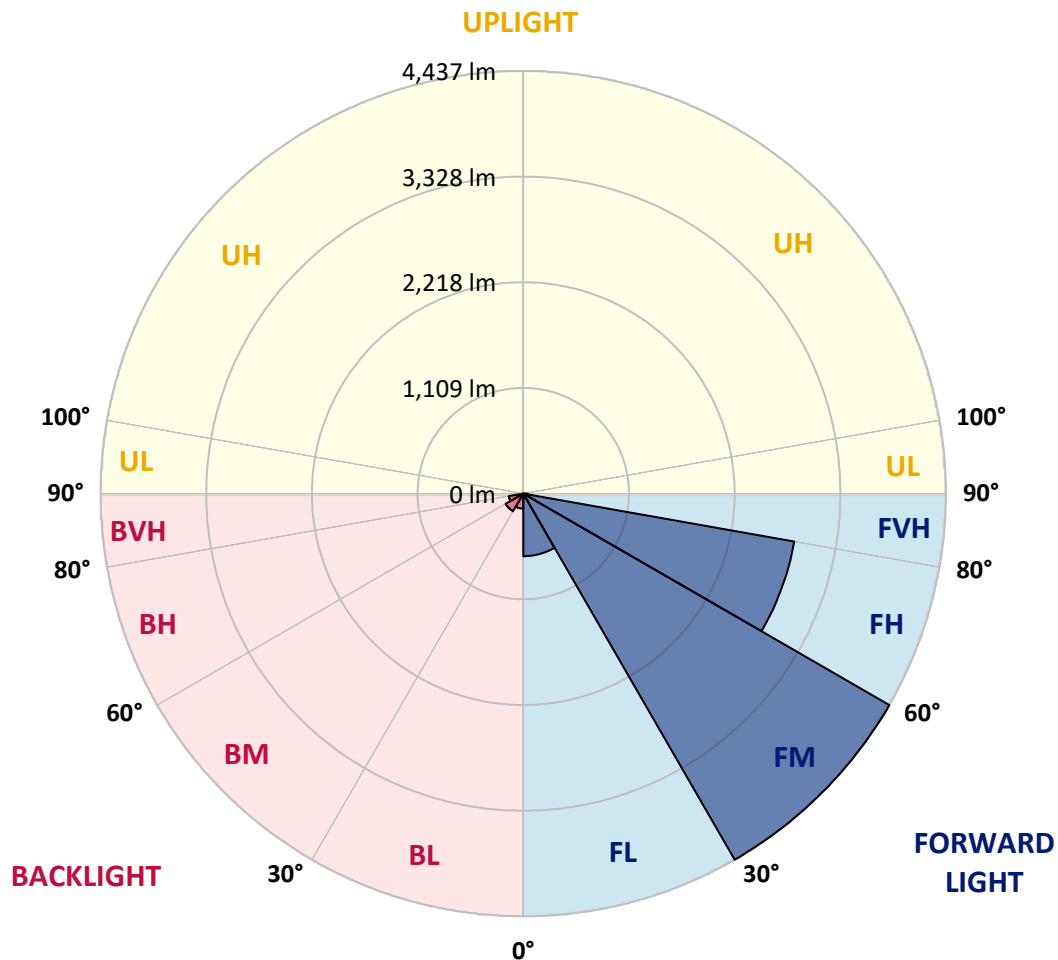
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	656.6	7.7			
FM (30°-60°)	4437.0	51.9			
FH (60°-80°)	2888.0	33.8			G2/5000
FVH (80°-90°)	44.4	0.5			G1/100
BL (0°-30°)	157.7	1.8	B1/500		
BM (30°-60°)	213.8	2.5	B0/220		
BH (60°-80°)	154.2	1.8	B1/500		G1/500
BVH (80°-90°)	2.4	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°	935.5	935.5	935.5	935.5	935.5	935.5	935.5	935.5	935.5	935.5	935.5
2.5°	1117.6	1103.7	1108.1	1101.8	1087.3	1065.8	1046.8	1019.6	992.4	988.0	957.6
5°	1265.0	1261.2	1256.1	1237.8	1227.7	1194.8	1155.6	1108.8	1052.5	1042.4	987.3
7.5°	1365.6	1363.7	1366.2	1356.7	1347.9	1318.1	1276.4	1212.5	1125.2	1119.5	1027.8
10°	1398.5	1403.5	1413.0	1428.2	1442.1	1432.6	1401.0	1321.3	1219.5	1203.0	1074.0
12.5°	1379.5	1385.2	1407.9	1448.4	1493.3	1519.3	1506.6	1448.4	1319.4	1306.1	1125.8
15°	1330.8	1337.7	1370.0	1432.6	1512.9	1586.3	1617.9	1576.2	1435.8	1414.3	1188.5
17.5°	1258.7	1268.8	1315.0	1397.8	1507.9	1634.4	1723.6	1709.6	1559.7	1539.5	1256.8
20°	1204.3	1211.9	1251.1	1346.0	1486.4	1660.9	1824.1	1863.3	1712.8	1678.0	1337.1
22.5°	1240.3	1242.9	1256.1	1313.1	1447.8	1667.9	1912.7	2023.4	1875.4	1844.4	1420.6
25°	1416.8	1391.5	1378.2	1365.6	1439.6	1661.6	1993.0	2190.3	2037.3	2004.4	1503.4
27.5°	1695.1	1683.7	1616.7	1526.9	1509.8	1669.8	2046.1	2348.5	2189.7	2154.3	1584.4
30°	1998.1	1978.5	1937.3	1805.8	1673.6	1728.0	2084.7	2502.2	2370.0	2323.2	1658.4
32.5°	2276.4	2289.0	2227.7	2092.3	1939.2	1852.0	2134.7	2669.8	2576.8	2518.6	1744.4
35°	2600.8	2626.1	2531.9	2402.2	2223.2	2075.9	2232.1	2858.9	2839.3	2765.9	1877.3
37.5°	2930.4	2945.5	2888.0	2705.8	2544.5	2360.5	2415.5	3092.3	3162.5	3099.9	2036.0
40°	3207.4	3228.3	3185.9	3024.0	2851.9	2690.0	2681.8	3346.5	3547.0	3482.5	2272.6
42.5°	3419.3	3435.1	3436.4	3321.9	3166.9	3093.5	3021.4	3671.0	4029.0	3954.4	2547.1
45°	3686.8	3709.6	3696.3	3618.5	3502.8	3489.5	3452.2	4063.2	4605.9	4511.6	2903.2
47.5°	4100.5	4115.7	4082.8	3991.1	3873.4	3894.3	3872.2	4502.8	5194.1	5113.1	3271.9
50°	4387.6	4412.9	4459.7	4496.4	4411.0	4333.9	4268.1	4913.2	5752.6	5679.8	3648.9
52.5°	4384.5	4426.2	4574.2	4758.9	4945.5	4922.1	4733.0	5366.7	6285.8	6195.9	4003.1
55°	4089.1	4170.1	4387.6	4715.3	5232.0	5489.4	5403.4	5891.7	6746.2	6685.5	4413.6
57.5°	3479.4	3528.7	3831.0	4289.0	5072.0	5756.4	6180.1	6603.3	7298.4	7269.9	5051.1
60°	2340.2	2362.4	2751.4	3317.5	4318.1	5490.1	6749.4	7464.1	7978.3	7964.4	5795.6
62.5°	1340.9	1350.4	1632.5	2110.0	3072.7	4652.7	6797.5	8526.1	8793.6	8801.2	6657.0
65°	721.7	726.7	954.4	1238.4	1869.7	3316.2	6112.5	9108.0	9452.7	9467.2	7190.9
66°	623.0	599.0	759.6	1055.6	1487.6	2639.4	5679.2	9087.1	9579.2	9563.4	7171.9
67.5°	473.7	495.2	606.6	811.5	1102.4	1876.6	4688.7	8682.9	9483.0	9433.7	6880.3
70°	339.0	347.9	432.0	578.7	750.8	1029.7	2996.1	7211.7	8619.0	8552.6	5994.2
72.5°	218.8	228.3	306.1	418.7	542.7	562.3	1677.4	5210.5	6645.0	6635.5	4514.1
75°	156.2	165.1	202.4	299.8	408.0	347.9	807.7	3511.6	4224.5	4196.0	2792.5
77.5°	113.2	117.6	135.4	196.1	291.6	249.2	374.4	1875.4	2103.1	2202.4	1234.0
80°	65.1	68.9	94.2	119.5	197.3	170.1	179.0	752.7	776.1	738.8	385.8
82.5°	32.3	36.7	56.3	81.6	123.3	114.5	82.2	226.4	239.1	232.8	97.4
85°	7.6	9.5	31.6	53.8	60.1	51.2	39.8	66.4	82.2	80.3	37.3
87.5°	0.6	1.3	11.4	9.5	10.1	17.1	13.9	17.1	26.6	24.7	13.3
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°	935.5	935.5	935.5	935.5	935.5	935.5	935.5	935.5	935.5	935.5	935.5
2.5°	943.7	931.7	896.9	862.7	834.3	804.5	777.3	761.5	755.2	748.2	751.4
5°	957.0	927.9	857.7	796.9	737.5	686.9	646.4	620.5	607.8	605.9	602.8
7.5°	974.7	924.7	815.9	721.0	643.3	587.0	540.8	503.5	492.1	482.0	473.7
10°	996.2	919.0	764.1	641.4	558.5	487.7	426.9	382.7	359.9	353.6	358.0
12.5°	1019.0	908.3	709.7	568.0	472.5	382.0	325.7	303.6	297.3	294.7	295.4
15°	1041.7	895.0	652.7	497.1	376.3	304.9	278.9	273.2	270.7	269.4	268.2
17.5°	1062.6	873.5	588.9	428.2	304.9	260.6	251.1	246.0	241.0	239.1	235.9
20°	1087.3	848.8	531.3	351.0	258.1	235.9	224.5	215.0	207.5	202.4	201.8
22.5°	1110.7	817.2	471.2	290.9	235.3	211.9	193.5	183.4	174.6	168.2	170.1
25°	1123.3	778.6	417.4	253.6	214.4	187.9	167.6	155.0	145.5	142.3	141.7
27.5°	1123.3	731.2	365.0	232.1	195.4	166.3	145.5	133.5	127.1	122.7	123.3
30°	1114.5	678.7	316.2	215.7	179.0	147.4	127.8	117.0	112.0	108.8	108.2
32.5°	1107.5	628.7	274.5	199.9	161.9	130.9	113.8	105.6	100.6	97.4	97.4
35°	1118.3	585.7	242.2	184.1	146.1	118.3	103.1	95.5	90.4	87.9	87.3
37.5°	1146.7	546.5	217.6	167.0	131.6	107.5	95.5	86.7	81.6	78.4	77.2
40°	1216.9	524.3	199.2	151.2	117.6	98.7	86.7	78.4	72.1	68.9	68.3
42.5°	1329.5	525.0	181.5	136.6	106.9	91.1	79.1	69.6	62.6	59.5	58.8
45°	1499.0	549.0	167.6	122.7	97.4	82.9	70.8	60.7	54.4	51.2	51.2
47.5°	1702.1	595.8	155.6	110.7	88.5	75.3	62.6	52.5	46.2	43.6	43.6
50°	1922.2	656.5	143.6	98.0	81.0	67.0	53.8	45.5	40.5	38.6	38.6
52.5°	2146.7	729.9	131.6	87.9	72.7	58.2	46.2	40.5	36.1	34.8	34.2
55°	2441.4	823.5	118.9	77.2	63.9	50.0	41.1	35.4	30.4	28.5	27.8
57.5°	2894.9	964.6	105.0	67.7	52.5	41.7	35.4	29.7	24.0	20.9	20.2
60°	3442.1	1136.6	90.4	59.5	42.4	34.2	28.5	22.8	17.7	13.9	13.3
62.5°	3954.4	1246.0	76.5	50.0	33.5	25.9	20.2	17.1	12.6	8.9	8.2
65°	4180.8	1209.3	63.2	40.5	26.6	18.3	13.3	12.0	7.6	3.8	3.2
66°	4105.5	1154.9	58.2	36.7	24.0	15.8	11.4	10.1	5.7	1.9	1.9
67.5°	3883.5	1026.5	50.6	31.6	20.9	12.6	8.9	7.6	3.2	0.6	0.0
70°	3327.6	830.5	39.8	23.4	15.2	8.9	5.1	3.8	1.9	0.0	0.0
72.5°	2555.9	618.6	31.6	17.7	10.8	5.1	2.5	1.3	1.9	0.0	0.0
75°	1566.1	353.6	24.7	13.3	7.0	3.2	1.9	0.0	1.9	0.6	0.0
77.5°	695.1	158.8	16.4	8.9	5.1	2.5	1.3	0.0	1.3	0.6	0.0
80°	175.8	51.9	9.5	6.3	3.8	1.9	0.6	0.0	1.3	1.3	0.6
82.5°	48.1	19.0	7.0	5.1	3.2	1.9	0.6	0.0	1.3	1.3	1.3
85°	19.0	8.9	6.3	5.1	3.8	1.9	0.6	0.0	1.3	1.3	1.3
87.5°	8.9	6.3	6.3	5.7	4.4	1.9	0.6	0.0	1.3	0.6	1.3
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)