

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: P652311

Luminaire Tested: **GALN-SA3B-840-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652311  
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-SA3B-840-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 800mA 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: 10334.2 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

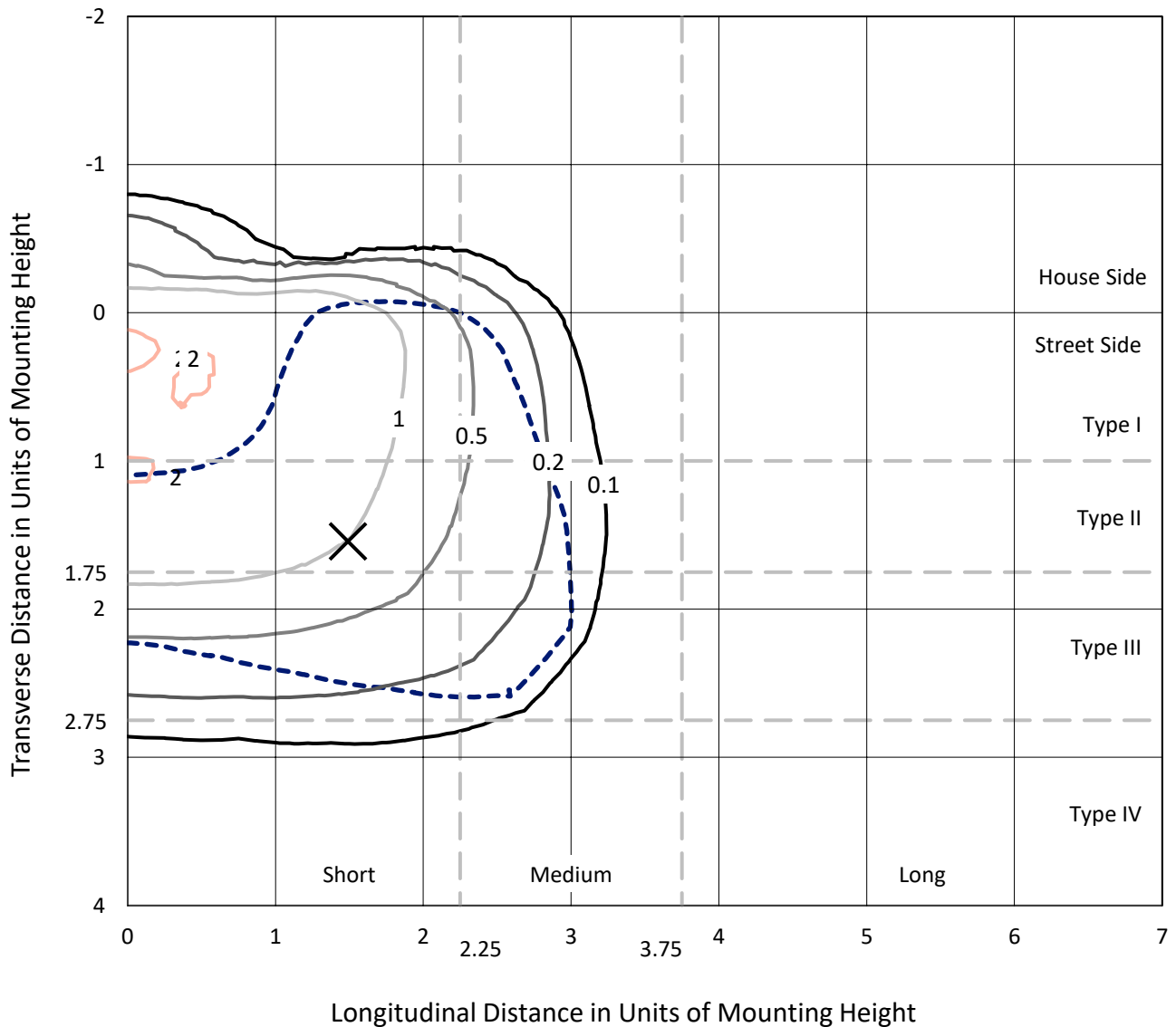
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

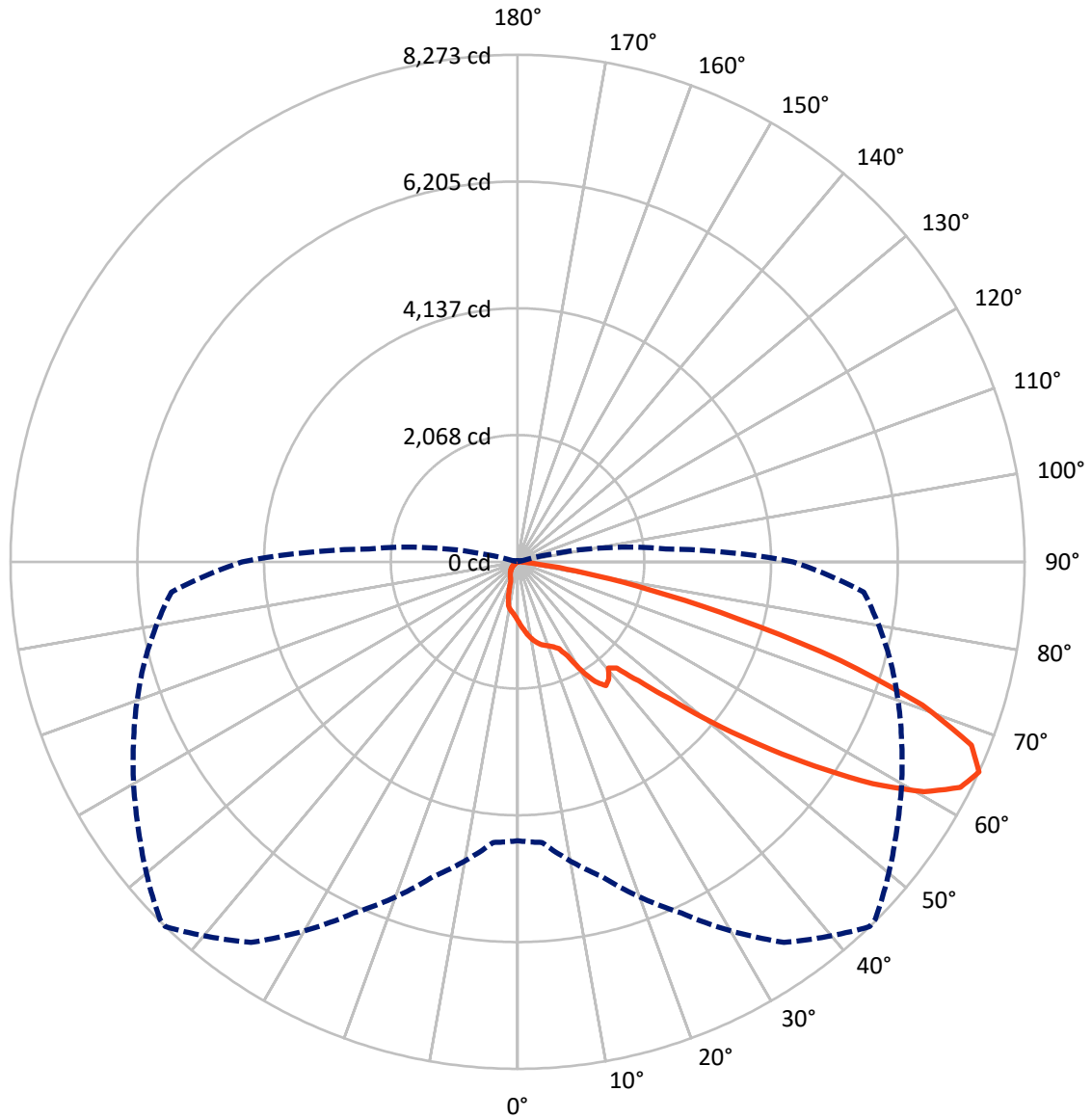
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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
<b>House Side</b>	Lumens	952.2	0.0	952.2
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	9382.1	0.0	9382.1
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	10334.2	0.0	10334.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.7	0.9
10°-20°	287.9	2.8
20°-30°	488.2	4.7
30°-40°	811.7	7.9
40°-50°	1417.3	13.7
50°-60°	2768.8	26.8
60°-70°	3212.5	31.1
70°-80°	1169.8	11.3
80°-90°	82.4	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°	10334.2	100.0
0°-180°	10334.2	100.0

**Coefficient of Utilization**



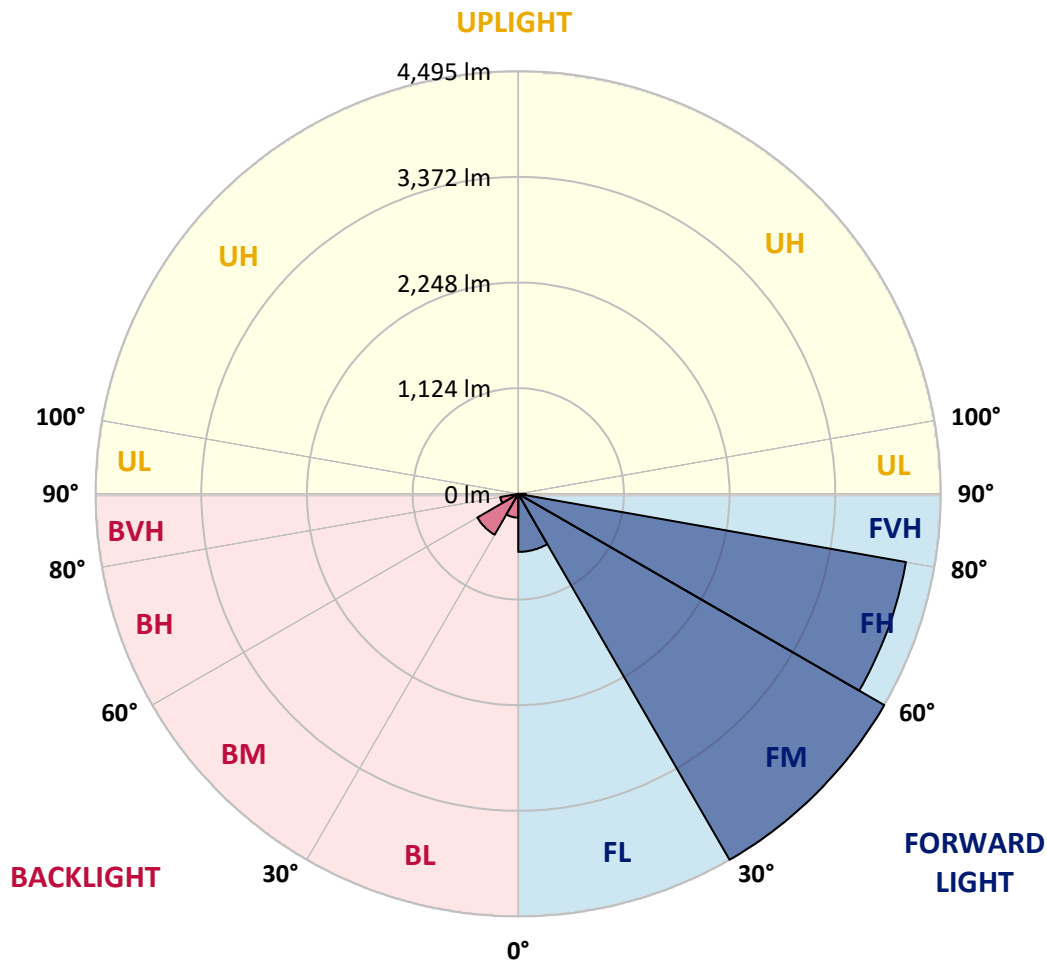
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	618.1	6.0			
FM (30°-60°)	4495.4	43.5			
FH (60°-80°)	4187.3	40.5			G2/5000
FVH (80°-90°)	81.3	0.8			G1/100
BL (0°-30°)	253.7	2.5	B1/500		
BM (30°-60°)	502.4	4.9	B1/1000		
BH (60°-80°)	195.0	1.9	B1/500		G1/500
BVH (80°-90°)	1.1	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	961.8	961.8	961.8	961.8	961.8	961.8	961.8	961.8	961.8	961.8	961.8
2.5°	1082.6	1077.9	1075.6	1062.9	1053.4	1041.6	1041.6	1026.5	1009.2	990.2	972.9
5°	1203.5	1195.6	1185.3	1174.2	1152.1	1120.5	1120.5	1088.9	1052.6	1020.2	984.7
7.5°	1319.5	1312.4	1295.1	1273.7	1237.4	1204.2	1201.9	1156.0	1112.6	1063.7	1013.2
10°	1421.4	1415.8	1400.9	1359.8	1321.9	1278.5	1277.6	1226.3	1175.8	1115.8	1053.4
12.5°	1492.4	1493.3	1473.5	1434.0	1385.0	1344.0	1340.8	1290.3	1237.4	1172.6	1096.1
15°	1543.0	1543.0	1522.5	1478.2	1434.0	1397.7	1394.5	1350.3	1295.8	1225.6	1142.7
17.5°	1557.2	1562.0	1539.9	1500.3	1464.9	1433.2	1432.5	1395.3	1351.9	1284.0	1190.0
20°	1551.6	1556.4	1539.0	1508.2	1483.8	1465.6	1463.3	1448.2	1408.0	1344.0	1240.6
22.5°	1539.9	1544.6	1532.0	1513.8	1501.9	1507.5	1503.5	1516.2	1494.8	1417.4	1300.6
25°	1542.2	1546.9	1537.4	1527.2	1537.4	1571.4	1581.7	1636.2	1617.2	1510.6	1365.4
27.5°	1616.4	1625.9	1612.4	1617.2	1653.6	1732.5	1752.2	1846.2	1762.5	1629.1	1466.4
30°	1781.5	1775.2	1749.9	1772.8	1899.1	2066.5	2061.0	2046.0	1915.0	1765.7	1586.5
32.5°	1931.5	1926.0	1924.4	2023.1	2252.1	2333.4	2329.5	2184.2	2051.5	1922.0	1704.9
35°	1992.3	1971.0	1966.3	2205.5	2588.5	2481.1	2456.6	2241.1	2217.4	2092.6	1825.7
37.5°	2175.5	2160.5	2087.1	2235.5	2454.3	2418.7	2399.8	2339.0	2394.2	2243.5	1962.3
40°	2552.9	2511.1	2444.8	2299.5	2264.0	2278.9	2297.9	2464.6	2603.5	2449.5	2144.7
42.5°	3022.0	3012.5	2889.3	2618.5	2352.4	2373.0	2397.4	2726.7	2904.4	2759.8	2442.4
45°	3585.1	3598.5	3420.9	3101.0	2752.0	2769.3	2804.9	3113.6	3311.9	3242.3	2910.7
47.5°	4096.8	4086.5	4026.5	3694.0	3371.8	3333.1	3390.8	3610.3	3875.7	3886.7	3491.9
50°	4611.6	4666.1	4576.9	4446.6	4207.3	4125.9	4104.7	4212.1	4616.3	4563.4	4189.9
52.5°	5351.5	5380.0	5212.5	5179.4	5233.9	4970.1	4948.8	4974.9	5336.6	5154.9	4712.7
55°	5816.6	5800.0	5737.6	5996.7	6212.3	5883.0	5856.1	5751.1	5934.3	5572.6	5215.7
57.5°	5963.5	5987.2	6132.5	6600.8	7110.9	6831.4	6782.4	6483.9	6365.4	5961.9	5678.4
60°	5897.9	5941.4	6254.9	6951.4	7658.9	7617.1	7575.2	7073.8	6675.0	6287.3	6003.0
62.5°	5431.3	5492.1	5993.6	6889.0	7844.5	8105.9	8053.8	7441.8	6881.1	6445.2	6059.8
65°	4551.6	4596.7	5316.8	6322.8	7580.8	8273.3	8254.3	7557.1	6913.4	6300.7	5670.5
67.5°	3244.7	3397.9	4065.1	5328.7	6800.6	7987.4	8019.8	7418.9	6609.4	5676.1	4696.1
70°	2039.7	2144.0	2622.5	3814.9	5451.8	7007.5	7114.0	6786.4	5736.1	4424.5	3143.7
72.5°	972.9	1050.2	1391.4	2414.8	3848.0	5513.4	5597.9	5571.0	4435.5	2787.5	1622.0
75°	433.5	462.7	664.1	1232.7	2484.3	3705.9	3924.6	3960.9	2771.7	1363.8	630.9
77.5°	221.1	221.9	311.1	596.9	1240.6	2211.1	2254.5	2381.6	1502.7	600.9	219.5
80°	117.7	125.6	165.0	281.9	643.5	1088.9	1083.4	1190.8	666.5	294.5	73.4
82.5°	52.9	58.4	93.2	147.7	314.3	413.0	445.4	487.2	285.9	188.0	32.4
85°	15.8	18.9	45.8	74.3	113.7	119.3	133.5	172.2	161.9	133.5	16.6
87.5°	2.4	2.4	18.9	20.5	16.6	21.4	22.1	24.5	52.1	48.9	8.7
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°	961.8	961.8	961.8	961.8	961.8	961.8	961.8	961.8	961.8	961.8	961.8
2.5°	963.4	957.9	938.1	921.6	907.4	898.6	888.3	882.0	878.9	876.5	877.3
5°	967.3	953.9	920.0	893.1	872.5	850.5	835.4	826.8	822.8	816.5	816.5
7.5°	989.4	968.2	920.7	879.7	844.1	814.2	785.7	775.5	768.3	766.7	765.1
10°	1021.1	994.1	929.4	872.5	822.1	781.0	740.7	705.2	677.5	660.9	658.6
12.5°	1060.5	1021.8	942.8	867.8	803.1	730.4	623.9	551.9	503.8	488.8	491.1
15°	1096.8	1055.0	956.3	863.9	768.3	605.7	484.8	402.8	378.3	375.8	376.7
17.5°	1140.3	1090.5	972.1	858.3	672.8	462.7	360.1	338.0	342.7	350.6	349.9
20°	1185.3	1128.5	991.0	825.2	537.0	348.3	318.2	320.6	327.7	334.8	336.4
22.5°	1233.4	1171.8	1013.2	745.5	409.8	303.3	301.7	304.8	311.9	319.8	321.4
25°	1299.8	1226.3	1029.7	641.2	310.3	280.3	283.5	289.1	295.4	304.0	305.6
27.5°	1385.0	1299.8	1038.4	505.4	268.4	259.8	260.6	268.4	276.4	284.3	284.3
30°	1495.6	1387.4	1021.1	382.2	247.9	240.0	236.9	241.6	251.9	259.8	260.6
32.5°	1594.3	1470.3	975.2	292.2	233.0	221.9	214.0	214.8	218.7	223.5	224.3
35°	1693.0	1550.9	897.1	245.6	217.1	204.5	192.7	186.4	183.2	180.8	183.2
37.5°	1819.4	1651.2	792.8	223.5	203.8	188.0	171.4	157.9	146.8	139.8	141.4
40°	1982.1	1790.2	669.6	209.2	191.1	172.2	150.0	132.6	113.7	107.4	104.2
42.5°	2250.5	2001.0	540.1	197.4	178.5	155.6	127.9	104.2	86.9	80.6	82.2
45°	2674.5	2267.1	416.1	184.8	165.8	137.4	107.4	82.2	68.0	64.8	66.4
47.5°	3236.8	2611.4	320.6	170.6	150.0	117.7	84.5	64.8	56.1	55.3	54.5
50°	3765.9	2932.0	267.7	154.7	131.1	97.9	69.5	54.5	48.9	48.2	48.2
52.5°	4244.4	3161.8	218.0	136.6	110.6	80.6	58.4	48.2	43.4	41.0	41.0
55°	4670.1	3311.9	176.9	114.5	86.9	64.0	50.5	43.4	37.9	34.7	34.0
57.5°	4991.4	3330.0	132.6	91.6	64.8	49.8	43.4	37.9	31.6	27.7	26.1
60°	5128.8	3172.8	97.9	69.5	48.2	39.4	34.7	30.8	23.7	19.8	18.9
62.5°	4990.7	2867.2	72.7	52.9	37.1	29.2	24.5	22.9	16.6	11.9	11.0
65°	4495.6	2425.9	57.6	40.3	27.7	21.4	15.8	15.0	10.3	5.6	4.7
67.5°	3601.7	1899.9	45.8	30.0	19.8	14.2	10.3	9.5	5.6	1.6	1.6
70°	2342.1	1214.5	37.1	22.1	12.6	9.5	6.3	4.7	3.2	0.8	0.0
72.5°	1158.4	567.8	30.0	17.4	8.7	4.7	2.4	1.6	2.4	0.0	0.0
75°	449.3	202.2	22.1	11.9	4.7	2.4	1.6	0.0	0.8	0.0	0.0
77.5°	149.3	67.1	13.5	6.3	3.2	1.6	0.0	0.0	0.0	0.0	0.0
80°	55.3	26.1	7.1	4.0	1.6	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	22.1	10.3	4.7	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.0	6.3	3.2	2.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.9	4.7	3.2	2.4	1.6	0.8	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)