

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: P594831

Luminaire Tested: **ISS-PA1E-827-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594831  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1E-827-U-T2R  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7881 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

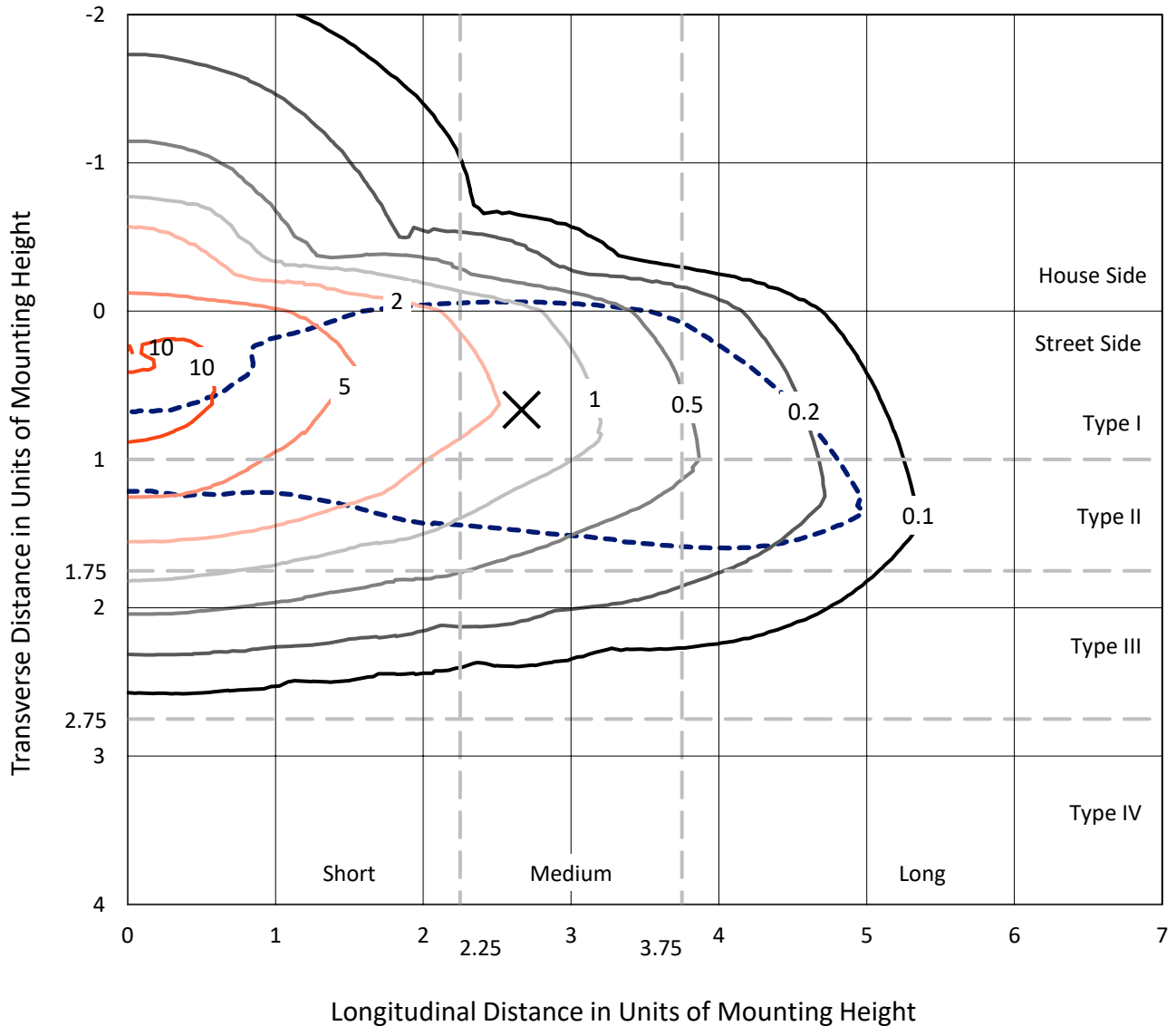
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

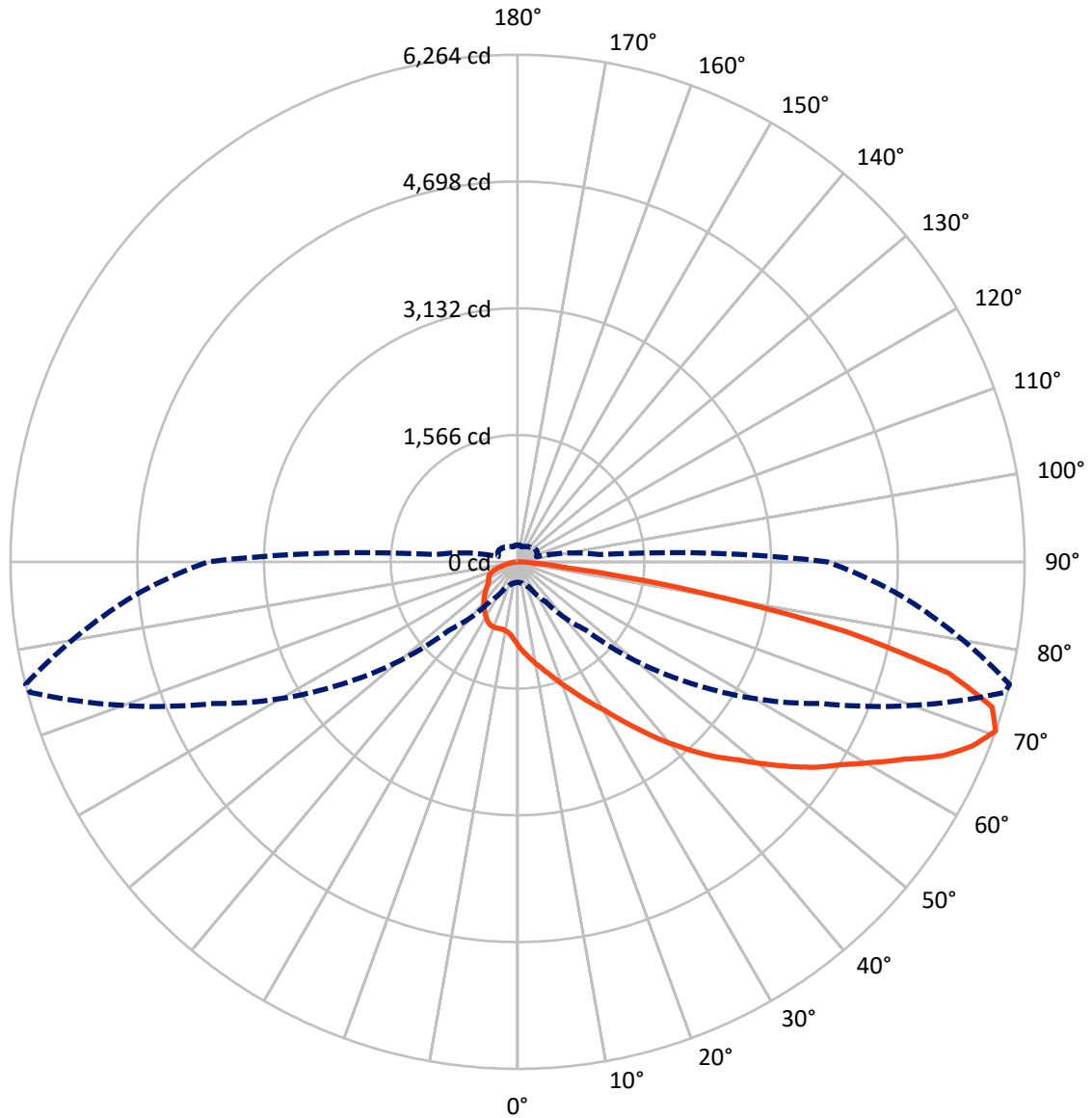
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 12.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1264.0	0.0	1264.0
	% Fixture	16.0	0.0	16.0
<b>Street Side</b>	Lumens	6617.0	0.0	6617.0
	% Fixture	84.0	0.0	84.0
<b>Total</b>	Lumens	7881.0	0.0	7881.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.8	1.3
10°-20°	332.5	4.2
20°-30°	612.8	7.8
30°-40°	1026.7	13.0
40°-50°	1458.8	18.5
50°-60°	1684.3	21.4
60°-70°	1548.4	19.6
70°-80°	976.3	12.4
80°-90°	140.4	1.8
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°	7881.0	100.0
0°-180°	7881.0	100.0

**Coefficient of Utilization**

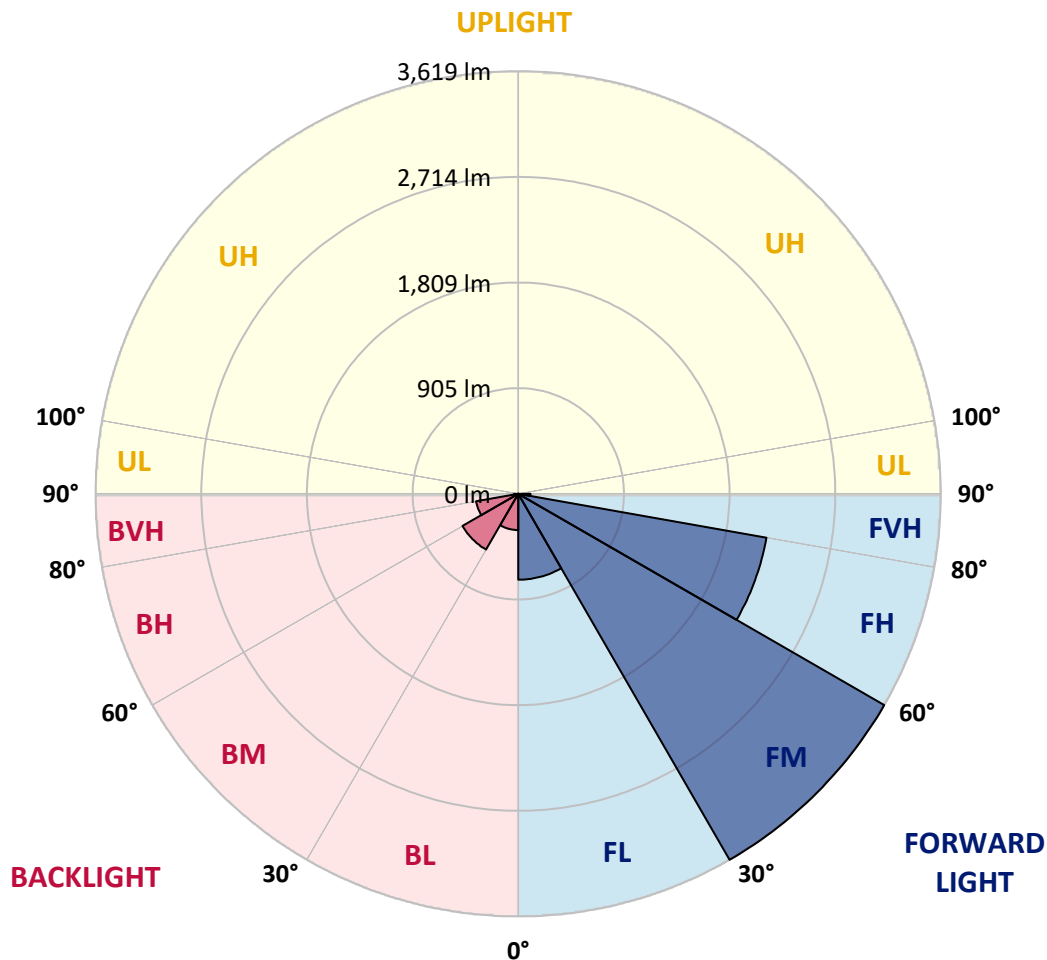


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	735.8	9.3			
FM (30°-60°)	3618.8	45.9			
FH (60°-80°)	2158.3	27.4			G2/5000
FVH (80°-90°)	104.1	1.3			G2/225
BL (0°-30°)	310.3	3.9	B1/500		
BM (30°-60°)	551.1	7.0	B1/1000		
BH (60°-80°)	366.4	4.6	B1/500		G1/500
BVH (80°-90°)	36.3	0.5			G1/100
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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1033.9	1033.9	1033.9	1033.9	1033.9	1033.9	1033.9	1033.9	1033.9	1033.9	1033.9
2.5°	1244.4	1242.5	1236.8	1227.4	1219.8	1197.0	1166.7	1140.1	1100.3	1096.5	1056.6
5°	1356.4	1348.8	1348.8	1339.3	1329.8	1305.1	1267.2	1219.8	1162.9	1159.1	1083.2
7.5°	1409.5	1411.4	1407.6	1400.0	1401.9	1381.0	1346.9	1299.5	1221.7	1217.9	1119.2
10°	1485.4	1483.5	1475.9	1470.2	1468.3	1449.3	1419.0	1375.3	1293.8	1286.2	1161.0
12.5°	1559.3	1553.6	1555.5	1553.6	1549.9	1530.9	1502.4	1458.8	1358.3	1354.5	1212.2
15°	1601.1	1599.2	1612.5	1616.3	1631.4	1614.4	1589.7	1540.4	1449.3	1434.1	1272.9
17.5°	1627.6	1625.7	1639.0	1669.4	1697.8	1697.8	1690.2	1637.1	1536.6	1525.2	1341.2
20°	1673.2	1680.7	1703.5	1728.2	1769.9	1777.5	1775.6	1752.8	1637.1	1625.7	1417.1
22.5°	1764.2	1760.4	1779.4	1817.3	1855.3	1866.7	1868.6	1868.6	1752.8	1732.0	1494.8
25°	1959.6	1950.1	1934.9	1931.2	1976.7	1974.8	1969.1	1982.4	1874.2	1859.1	1584.0
27.5°	2331.4	2310.6	2251.7	2134.1	2107.6	2117.1	2088.6	2090.5	2012.7	1993.8	1659.9
30°	2684.3	2674.8	2619.8	2477.5	2327.6	2274.5	2225.2	2204.3	2166.4	2134.1	1741.5
32.5°	3003.0	3004.9	2938.5	2782.9	2629.3	2462.3	2377.0	2333.3	2348.5	2320.0	1853.4
35°	3219.2	3202.2	3160.4	3056.1	2889.1	2729.8	2566.7	2469.9	2551.5	2519.2	1965.3
37.5°	3346.3	3333.0	3298.9	3224.9	3141.4	2987.8	2781.0	2633.0	2792.4	2745.0	2107.6
40°	3410.8	3391.9	3357.7	3327.4	3287.5	3204.0	3021.9	2819.0	3012.4	2970.7	2248.0
42.5°	3418.4	3405.1	3386.2	3371.0	3384.3	3372.9	3257.2	3035.2	3243.9	3198.4	2409.2
45°	3412.7	3422.2	3399.4	3372.9	3399.4	3496.2	3496.2	3251.5	3473.4	3439.3	2562.9
47.5°	3416.5	3407.0	3399.4	3391.9	3395.6	3528.4	3661.2	3454.5	3693.5	3653.6	2743.1
50°	3259.1	3272.3	3336.8	3365.3	3382.4	3536.0	3794.0	3674.5	3966.6	3917.3	2944.2
52.5°	2758.3	2765.8	3059.9	3272.3	3340.6	3505.7	3887.0	3919.2	4236.0	4198.1	3160.4
55°	2124.6	2164.5	2443.3	2963.1	3245.8	3454.5	3915.4	4078.6	4511.1	4480.7	3378.6
57.5°	1749.0	1754.7	1916.0	2380.7	2946.1	3407.0	3943.9	4224.6	4757.7	4723.6	3606.2
60°	1451.2	1437.9	1536.6	1836.3	2447.1	3217.3	3949.6	4340.4	5044.1	5032.8	3841.4
62.5°	1066.1	1081.3	1176.1	1430.3	1914.1	2832.2	3921.1	4439.0	5385.6	5370.4	4103.2
65°	654.5	673.4	789.2	1022.5	1449.3	2248.0	3735.2	4490.2	5744.1	5778.3	4385.9
67.5°	347.2	360.4	428.7	618.4	994.0	1713.0	3287.5	4425.7	6047.7	6062.8	4657.2
70°	254.2	256.1	278.9	349.0	599.5	1191.3	2617.9	4145.0	6233.6	6263.9	4746.3
72.5°	221.9	223.8	233.3	250.4	326.3	726.6	1876.1	3655.5	6155.8	6129.2	4596.5
75°	201.1	201.1	208.7	214.4	239.0	402.2	1149.6	2991.6	5562.0	5503.2	3919.2
77.5°	172.6	172.6	180.2	187.8	206.8	259.9	601.4	2217.6	4253.1	4152.6	2680.5
80°	138.5	138.5	148.0	157.5	182.1	195.4	294.0	1483.5	2432.0	2284.0	1219.8
82.5°	94.9	102.4	119.5	130.9	151.8	138.5	172.6	641.2	766.4	664.0	275.1
85°	56.9	60.7	85.4	98.6	113.8	74.0	106.2	246.6	229.5	201.1	62.6
87.5°	5.7	9.5	34.1	39.8	39.8	20.9	45.5	58.8	66.4	68.3	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°	1033.9	1033.9	1033.9	1033.9	1033.9	1033.9	1033.9	1033.9	1033.9	1033.9	1033.9
2.5°	1033.9	1011.1	967.5	927.6	887.8	861.2	834.7	825.2	811.9	802.4	810.0
5°	1043.4	995.9	912.5	842.3	794.8	758.8	741.7	732.2	724.7	722.8	720.9
7.5°	1054.7	984.5	872.6	794.8	749.3	732.2	728.5	728.5	728.5	730.3	732.2
10°	1079.4	988.3	851.8	768.3	743.6	739.8	741.7	749.3	749.3	751.2	751.2
12.5°	1107.9	997.8	836.6	764.5	749.3	751.2	753.1	756.9	756.9	762.6	760.7
15°	1149.6	1016.8	834.7	768.3	755.0	751.2	751.2	749.3	749.3	749.3	753.1
17.5°	1202.7	1043.4	836.6	768.3	749.3	741.7	736.0	730.3	722.8	726.6	722.8
20°	1255.8	1075.6	836.6	758.8	734.1	715.2	698.1	688.6	679.1	677.2	679.1
22.5°	1322.2	1113.5	827.1	737.9	701.9	675.3	650.7	637.4	622.2	616.5	612.7
25°	1379.1	1143.9	808.1	707.6	665.8	627.9	595.7	572.9	553.9	550.1	550.1
27.5°	1437.9	1170.5	779.7	669.6	614.6	572.9	536.9	508.4	489.4	487.5	485.6
30°	1492.9	1193.2	741.7	627.9	569.1	519.8	478.0	453.4	436.3	426.8	421.1
32.5°	1565.0	1223.6	705.7	586.2	516.0	466.7	428.7	407.9	385.1	369.9	364.2
35°	1656.1	1259.6	665.8	540.6	468.6	419.2	396.5	366.1	337.7	320.6	314.9
37.5°	1758.5	1310.8	624.1	493.2	421.1	385.1	371.8	324.4	294.0	288.3	286.4
40°	1885.6	1360.2	576.7	443.9	375.6	366.1	343.4	294.0	278.9	277.0	275.1
42.5°	2012.7	1413.3	531.2	394.6	339.6	343.4	311.1	286.4	273.2	269.4	267.5
45°	2160.7	1466.4	485.6	350.9	311.1	311.1	294.0	278.9	267.5	263.7	263.7
47.5°	2316.2	1519.5	436.3	313.0	290.2	278.9	280.8	269.4	261.8	258.0	256.1
50°	2511.6	1570.7	390.8	286.4	277.0	261.8	267.5	259.9	256.1	252.3	250.4
52.5°	2695.6	1593.5	349.0	271.3	269.4	254.2	256.1	252.3	250.4	244.7	242.8
55°	2875.9	1587.8	316.8	263.7	259.9	252.3	248.5	246.6	244.7	239.0	237.1
57.5°	3076.9	1580.2	295.9	261.8	254.2	246.6	246.6	240.9	233.3	233.3	233.3
60°	3285.6	1555.5	286.4	261.8	252.3	246.6	242.8	237.1	229.5	231.4	229.5
62.5°	3520.8	1508.1	280.8	267.5	254.2	244.7	240.9	233.3	223.8	225.7	223.8
65°	3727.6	1411.4	277.0	273.2	258.0	246.6	237.1	227.6	216.3	218.2	216.3
67.5°	3868.0	1248.2	265.6	277.0	263.7	244.7	233.3	220.1	204.9	212.5	210.6
70°	3828.2	1014.9	244.7	269.4	269.4	246.6	227.6	210.6	193.5	208.7	203.0
72.5°	3519.0	762.6	204.9	242.8	265.6	246.6	216.3	195.4	180.2	189.7	178.3
75°	2889.1	517.9	163.1	193.5	248.5	248.5	206.8	180.2	161.2	155.6	151.8
77.5°	1802.2	322.5	127.1	142.3	208.7	246.6	197.3	161.2	134.7	130.9	127.1
80°	713.3	172.6	100.5	102.4	153.7	225.7	184.0	136.6	108.1	104.3	96.7
82.5°	163.1	87.3	70.2	68.3	94.9	184.0	166.9	108.1	83.5	83.5	70.2
85°	49.3	45.5	45.5	43.6	47.4	94.9	129.0	74.0	56.9	39.8	34.1
87.5°	13.3	19.0	17.1	15.2	15.2	13.3	41.7	19.0	11.4	5.7	3.8
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)