

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: P594844

Luminaire Tested: **ISS-PA1E-830-U-T3**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594844  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1E-830-U-T3  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 80 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8315 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G2

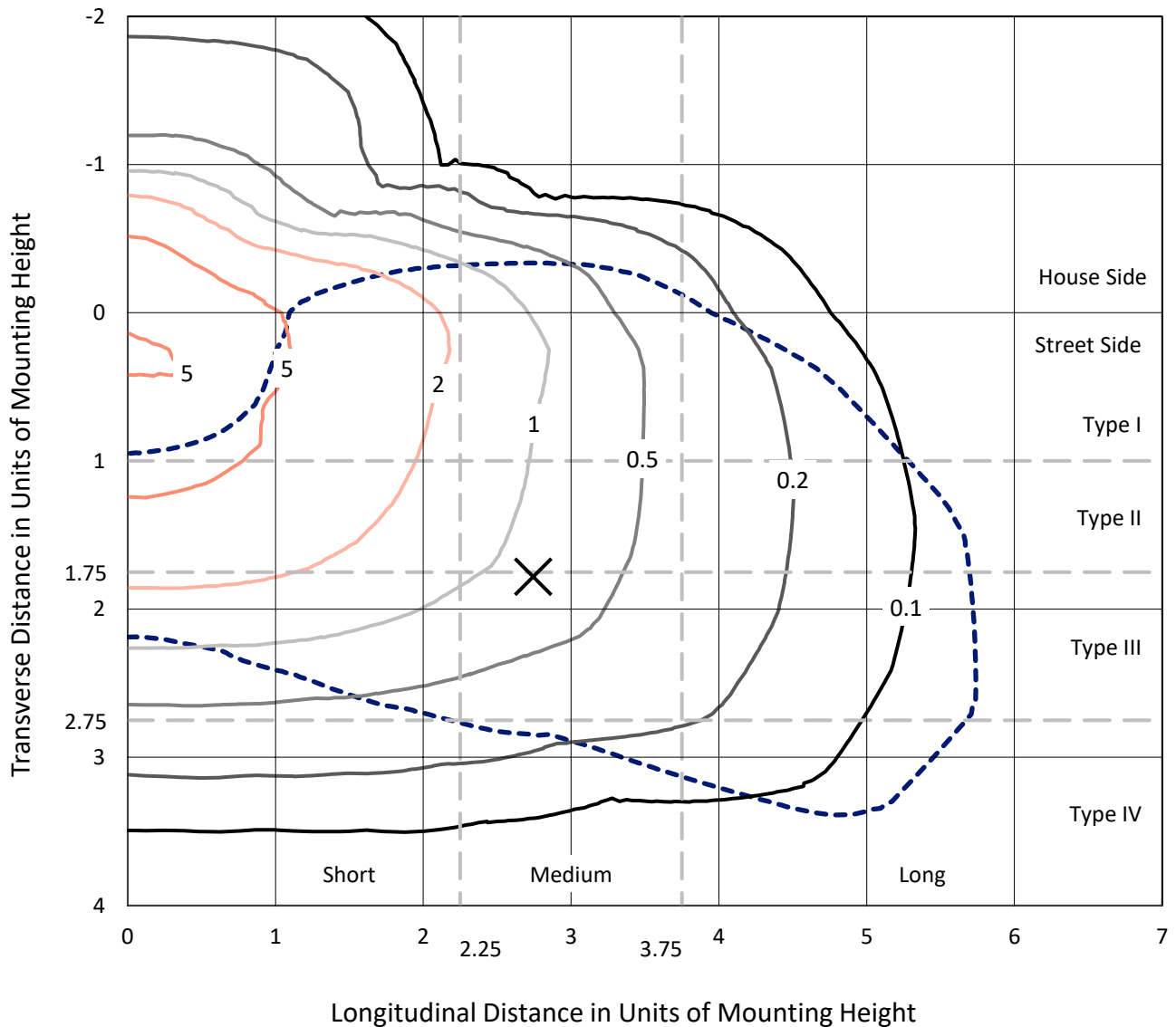
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P594844  
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### Iso-Footcandle Lines of Horizontal Illumination

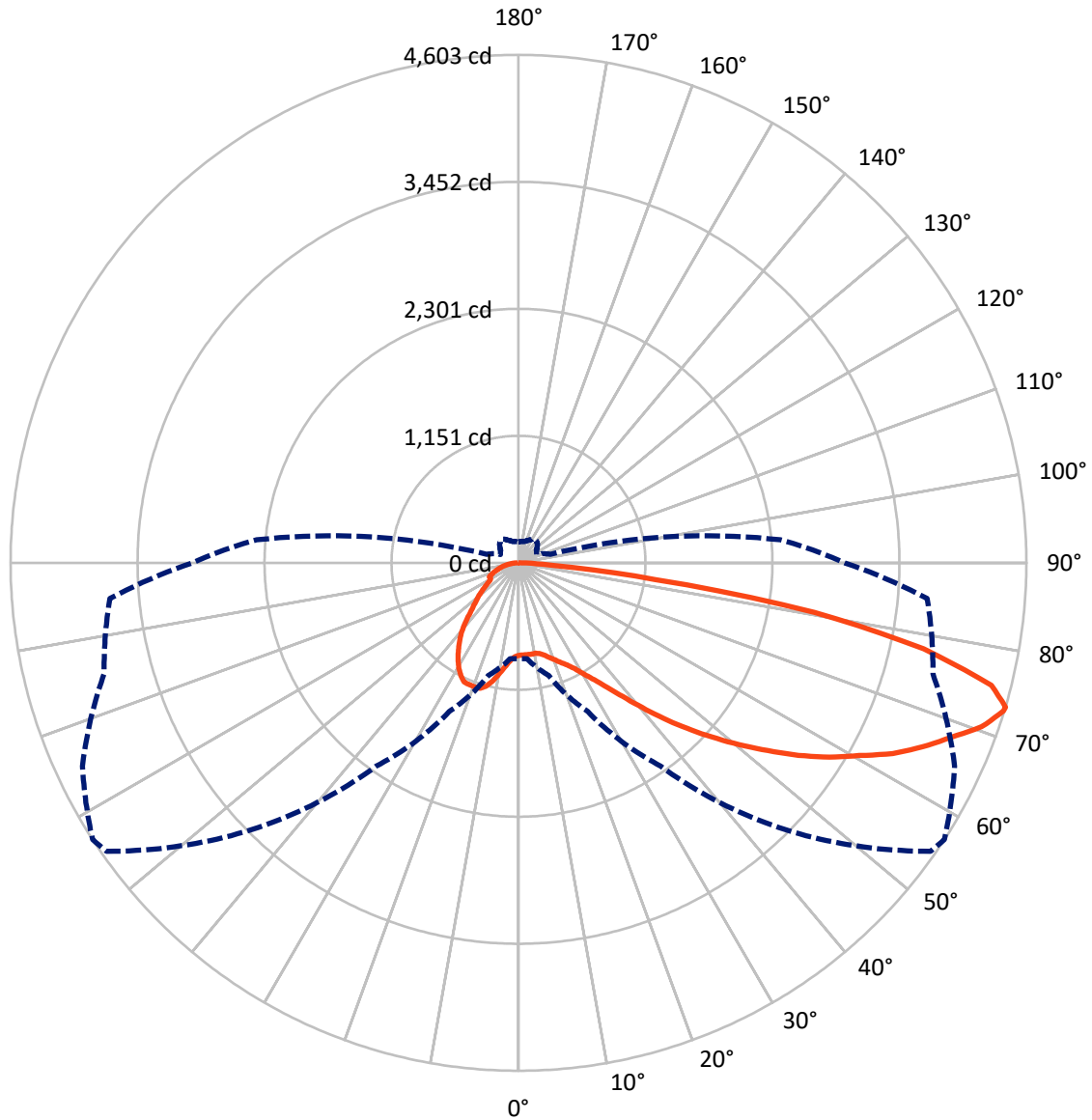
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.1 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P594844  
CATALOG NUMBER: ISS-PA1E-830-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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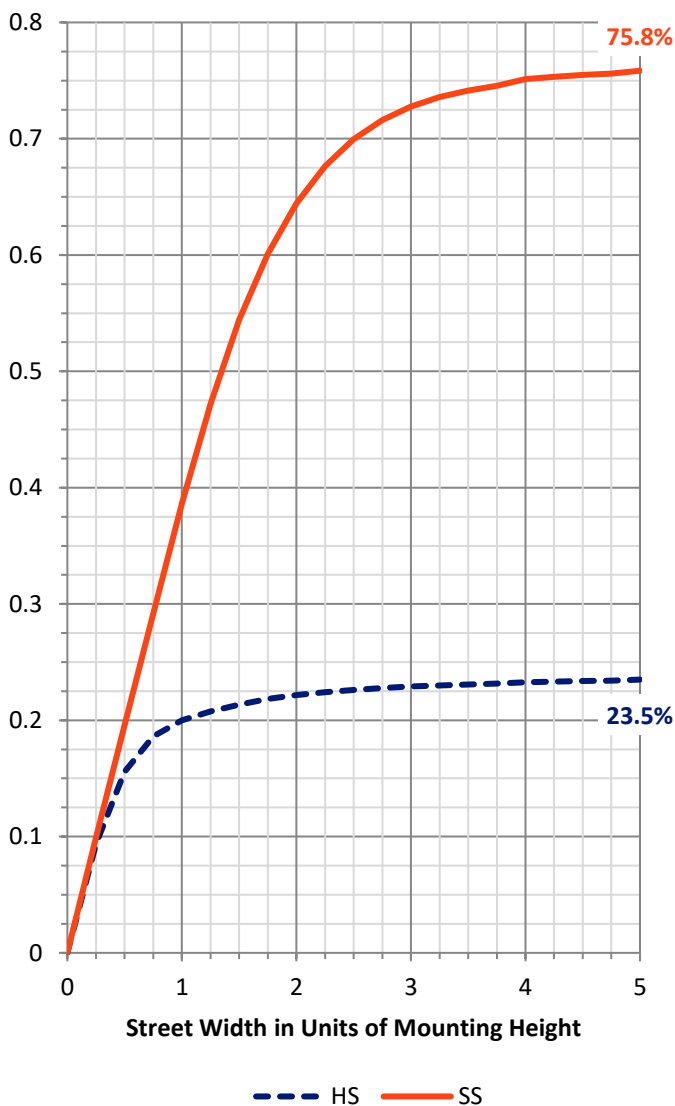
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1983.7	0.0	1983.7
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	6331.3	0.0	6331.3
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	8315.0	0.0	8315.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.6	1.0
10°-20°	275.1	3.3
20°-30°	507.8	6.1
30°-40°	784.1	9.4
40°-50°	1180.3	14.2
50°-60°	1727.5	20.8
60°-70°	2040.0	24.5
70°-80°	1460.6	17.6
80°-90°	255.9	3.1
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°	8315.0	100.0
0°-180°	8315.0	100.0

**Coefficient of Utilization**

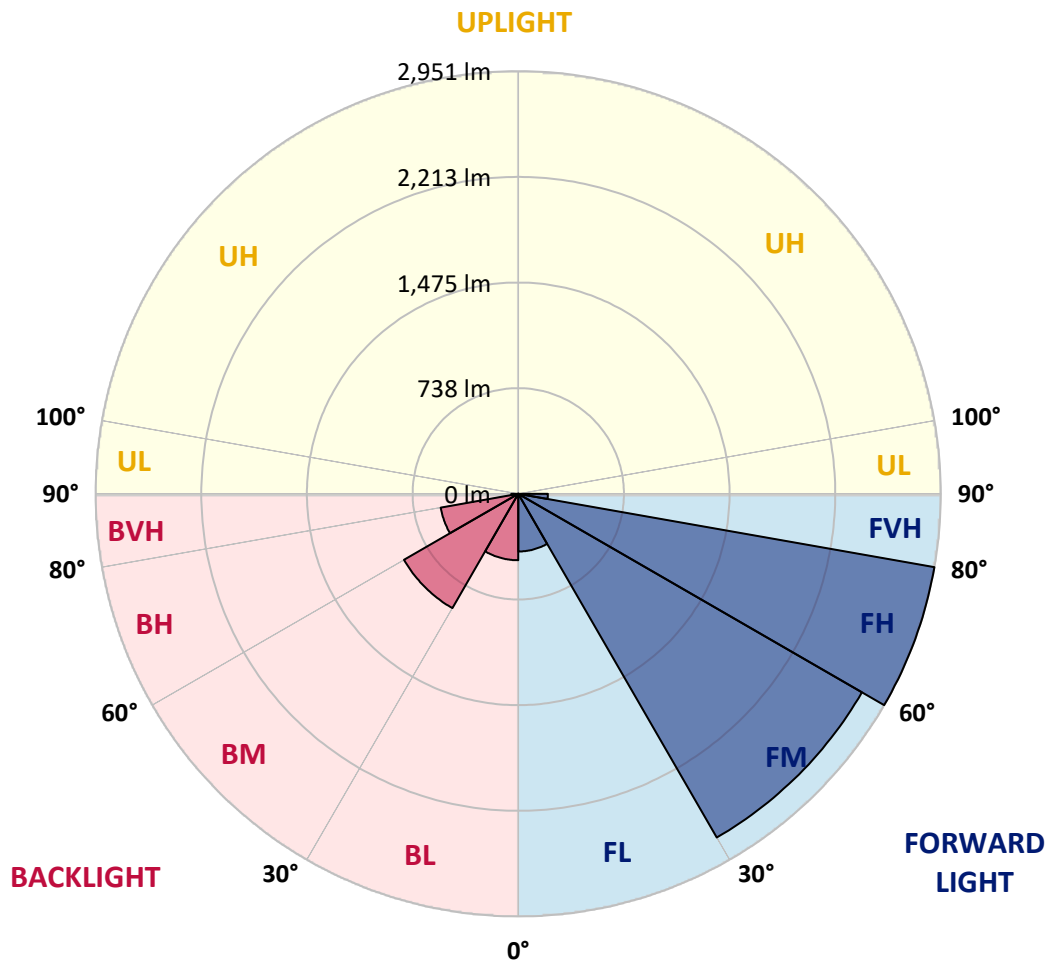


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 CATALOG NUMBER: ISS-PA1E-830-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	402.9	4.8			
FM (30°-60°)	2770.8	33.3			
FH (60°-80°)	2950.6	35.5			G2/5000
FVH (80°-90°)	207.0	2.5			G2/225
BL (0°-30°)	463.6	5.6	B1/500		
BM (30°-60°)	921.2	11.1	B1/1000		
BH (60°-80°)	550.0	6.6	B2/1000		G2/1000
BVH (80°-90°)	48.9	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type IV Medium





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CATALOG NUMBER: ISS-PA1E-830-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	837.7	837.7	837.7	837.7	837.7	837.7	837.7	837.7	837.7	837.7	837.7
2.5°	827.5	831.6	829.6	831.6	837.7	833.7	833.7	835.7	837.7	835.7	839.8
5°	792.9	794.9	799.0	807.2	821.4	825.5	835.7	835.7	839.8	843.9	850.0
7.5°	735.8	739.9	748.1	756.2	780.7	805.1	831.6	835.7	850.0	860.2	864.2
10°	725.6	729.7	731.7	744.0	768.4	792.9	825.5	833.7	860.2	876.5	894.8
12.5°	715.4	719.5	725.6	741.9	772.5	799.0	833.7	841.8	874.4	907.0	929.5
15°	723.6	725.6	731.7	748.1	778.6	815.3	860.2	866.3	903.0	943.7	978.4
17.5°	744.0	746.0	744.0	758.2	786.8	829.6	890.7	900.9	945.8	986.5	1021.2
20°	790.9	792.9	784.7	784.7	805.1	847.9	923.3	937.6	992.7	1037.5	1072.1
22.5°	892.8	888.7	868.3	841.8	841.8	876.5	960.0	980.4	1049.7	1086.4	1117.0
25°	1037.5	1037.5	1004.9	956.0	923.3	919.3	1002.8	1025.3	1106.8	1151.6	1170.0
27.5°	1212.8	1214.8	1161.8	1096.6	1033.4	1002.8	1064.0	1086.4	1178.1	1225.0	1231.1
30°	1367.7	1369.7	1316.7	1255.6	1178.1	1110.9	1145.5	1170.0	1276.0	1312.7	1292.3
32.5°	1522.6	1524.6	1488.0	1404.4	1322.9	1239.3	1249.5	1263.7	1371.8	1406.4	1373.8
35°	1657.1	1663.2	1626.6	1563.4	1477.8	1402.3	1384.0	1386.0	1483.9	1506.3	1463.5
37.5°	1793.7	1793.7	1771.3	1712.2	1638.8	1555.2	1530.8	1536.9	1624.5	1646.9	1585.8
40°	1967.0	1975.1	1962.9	1889.5	1805.9	1736.6	1712.2	1720.3	1816.1	1803.9	1738.7
42.5°	2176.9	2195.2	2174.9	2095.4	2005.7	1928.2	1928.2	1928.2	2009.8	2011.8	1914.0
45°	2446.0	2446.0	2425.6	2356.3	2238.0	2160.6	2134.1	2140.2	2211.6	2219.7	2105.6
47.5°	2670.2	2690.6	2668.1	2617.2	2523.4	2450.0	2366.5	2356.3	2415.4	2415.4	2317.5
50°	2851.6	2888.3	2869.9	2892.3	2825.1	2788.4	2617.2	2588.6	2609.0	2629.4	2521.4
52.5°	3002.4	3030.9	3024.8	3090.1	3122.7	3143.1	2872.0	2827.1	2843.4	2841.4	2743.5
55°	3012.6	3022.8	3114.5	3261.3	3389.7	3485.5	3128.8	3079.9	3063.6	3055.4	2980.0
57.5°	2953.5	2959.6	3143.1	3316.3	3595.6	3705.6	3371.3	3322.4	3300.0	3271.5	3240.9
60°	2810.8	2841.4	3081.9	3348.9	3717.9	3876.8	3597.6	3546.6	3530.3	3469.2	3538.5
62.5°	2629.4	2643.7	2884.2	3281.7	3734.2	3950.2	3836.1	3805.5	3754.5	3666.9	3803.5
65°	2372.6	2370.5	2582.5	3083.9	3650.6	3986.9	4037.9	4021.6	3958.4	3807.5	4039.9
67.5°	1948.6	1995.5	2203.4	2733.4	3448.8	4023.6	4243.7	4223.4	4123.5	3933.9	4152.0
70°	1485.9	1514.5	1750.9	2207.5	3047.3	3923.7	4445.5	4451.6	4270.2	3960.4	4103.1
72.5°	947.8	996.7	1184.3	1608.2	2439.8	3552.8	4565.8	4594.3	4351.8	3923.7	3799.4
73°	868.3	872.4	1055.8	1488.0	2250.3	3420.3	4557.6	4602.5	4359.9	3887.0	3715.8
75°	517.7	540.1	650.2	988.6	1606.2	2747.6	4337.5	4427.2	4317.1	3724.0	3257.2
77.5°	242.6	258.9	320.0	521.8	874.4	1653.1	3646.5	3752.5	3825.9	3259.2	2482.6
80°	128.4	130.5	156.9	262.9	468.8	680.8	2541.8	2717.0	2821.0	2454.1	1669.4
82.5°	108.0	108.0	122.3	169.2	299.6	265.0	1047.7	1247.4	1528.7	1208.7	656.3
85°	87.6	89.7	122.3	126.4	214.0	136.6	250.7	313.9	593.1	534.0	73.4
87.5°	28.5	32.6	69.3	89.7	114.1	53.0	63.2	69.3	69.3	101.9	24.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P594844  
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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	837.7	837.7	837.7	837.7	837.7	837.7	837.7	837.7	837.7	837.7	837.7
2.5°	841.8	841.8	843.9	845.9	850.0	850.0	854.0	856.1	860.2	862.2	856.1
5°	850.0	854.0	858.1	870.4	884.6	896.9	909.1	919.3	929.5	935.6	933.5
7.5°	872.4	878.5	894.8	917.2	945.8	964.1	982.5	1000.8	1009.0	1013.0	1013.0
10°	903.0	915.2	945.8	982.5	1015.1	1043.6	1057.9	1070.1	1074.2	1078.3	1074.2
12.5°	945.8	962.1	1009.0	1055.8	1092.5	1106.8	1104.8	1088.5	1066.0	1062.0	1057.9
15°	1000.8	1021.2	1074.2	1129.2	1157.8	1139.4	1092.5	1076.2	1072.1	1084.4	1080.3
17.5°	1047.7	1072.1	1137.4	1194.4	1188.3	1125.1	1110.9	1119.0	1114.9	1117.0	1117.0
20°	1092.5	1127.2	1196.5	1235.2	1182.2	1141.4	1129.2	1119.0	1106.8	1110.9	1106.8
22.5°	1149.6	1174.1	1253.6	1255.6	1174.1	1141.4	1114.9	1094.6	1090.5	1092.5	1094.6
25°	1194.4	1233.2	1302.5	1241.3	1174.1	1108.8	1072.1	1068.1	1070.1	1082.3	1078.3
27.5°	1255.6	1294.3	1341.2	1233.2	1125.1	1055.8	1041.6	1039.5	1025.3	1029.3	1029.3
30°	1312.7	1359.5	1361.6	1233.2	1064.0	1011.0	990.6	953.9	923.3	929.5	927.4
32.5°	1390.1	1430.9	1365.7	1184.3	994.7	951.9	896.9	839.8	825.5	833.7	835.7
35°	1479.8	1512.4	1369.7	1102.7	925.4	868.3	768.4	735.8	733.8	739.9	746.0
37.5°	1598.0	1616.4	1400.3	1009.0	858.1	737.9	660.4	652.3	633.9	621.7	623.7
40°	1742.7	1720.3	1459.4	925.4	778.6	619.6	587.0	564.6	530.0	495.3	501.4
42.5°	1903.8	1840.6	1477.8	858.1	670.6	546.3	515.7	481.0	438.2	401.5	399.5
45°	2077.0	1975.1	1461.5	805.1	562.6	491.2	458.6	417.9	366.9	336.3	336.3
47.5°	2282.9	2103.5	1410.5	762.3	487.2	442.3	401.5	360.8	326.1	297.6	297.6
50°	2509.1	2252.3	1373.8	686.9	434.2	395.4	354.7	322.1	295.6	273.1	273.1
52.5°	2747.6	2393.0	1343.2	576.8	387.3	352.6	324.1	297.6	275.2	246.6	242.6
55°	2990.2	2527.5	1357.5	470.8	344.5	322.1	303.7	277.2	269.1	262.9	258.9
57.5°	3242.9	2674.2	1392.2	385.2	307.8	305.7	297.6	315.9	334.3	322.1	315.9
60°	3440.6	2788.4	1396.2	324.1	285.4	322.1	362.8	368.9	320.0	291.5	289.4
62.5°	3597.6	2896.4	1300.4	281.3	291.5	379.1	387.3	326.1	277.2	265.0	265.0
65°	3679.1	2935.1	1045.6	256.8	303.7	362.8	350.6	293.5	258.9	256.8	256.8
67.5°	3638.4	2904.6	731.7	230.3	269.1	313.9	313.9	269.1	238.5	248.7	244.6
70°	3442.7	2753.7	483.1	207.9	236.4	283.3	291.5	250.7	222.2	228.3	222.2
72.5°	3035.0	2484.7	318.0	183.4	203.8	250.7	271.1	230.3	203.8	201.8	195.7
73°	2955.5	2382.8	299.6	179.4	197.7	242.6	265.0	226.3	199.8	193.6	189.6
75°	2507.1	1987.3	226.3	161.0	175.3	218.1	246.6	212.0	183.4	175.3	171.2
77.5°	1826.3	1377.9	169.2	136.6	146.8	189.6	218.1	193.6	163.1	152.9	150.8
80°	1139.4	750.1	126.4	110.1	116.2	159.0	191.6	173.3	140.6	128.4	126.4
82.5°	446.4	244.6	87.6	81.5	85.6	120.3	161.0	150.8	118.2	108.0	101.9
85°	73.4	83.6	57.1	55.0	55.0	85.6	122.3	116.2	79.5	69.3	61.1
87.5°	20.4	38.7	22.4	20.4	20.4	36.7	67.3	53.0	32.6	26.5	24.5
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)