

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: P594835

Luminaire Tested: **ISS-PA1E-827-U-T3**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594835  
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-827-U-T3  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7692 lumens  
Efficiency: N/A  
Efficacy: 93.3 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

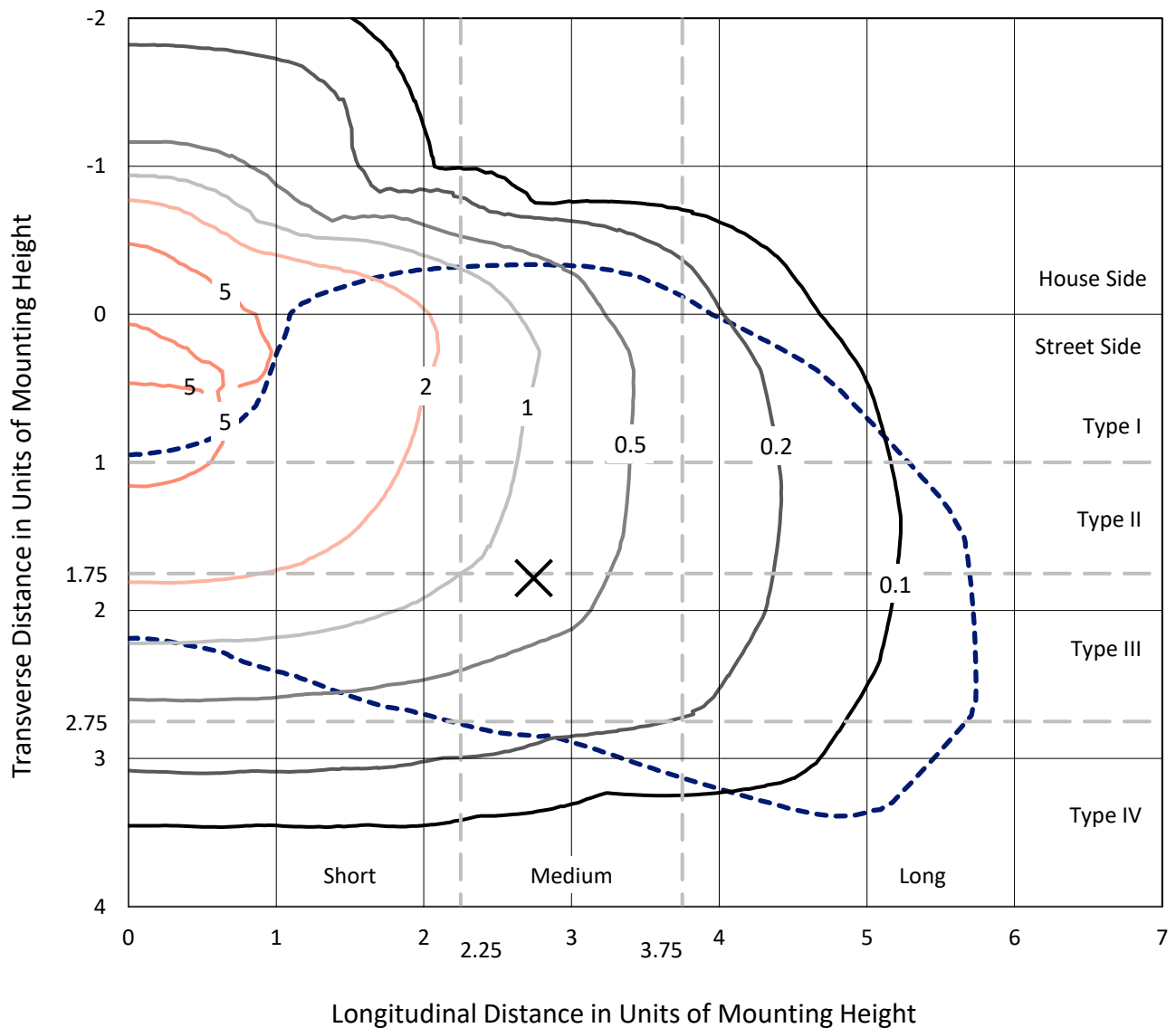
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

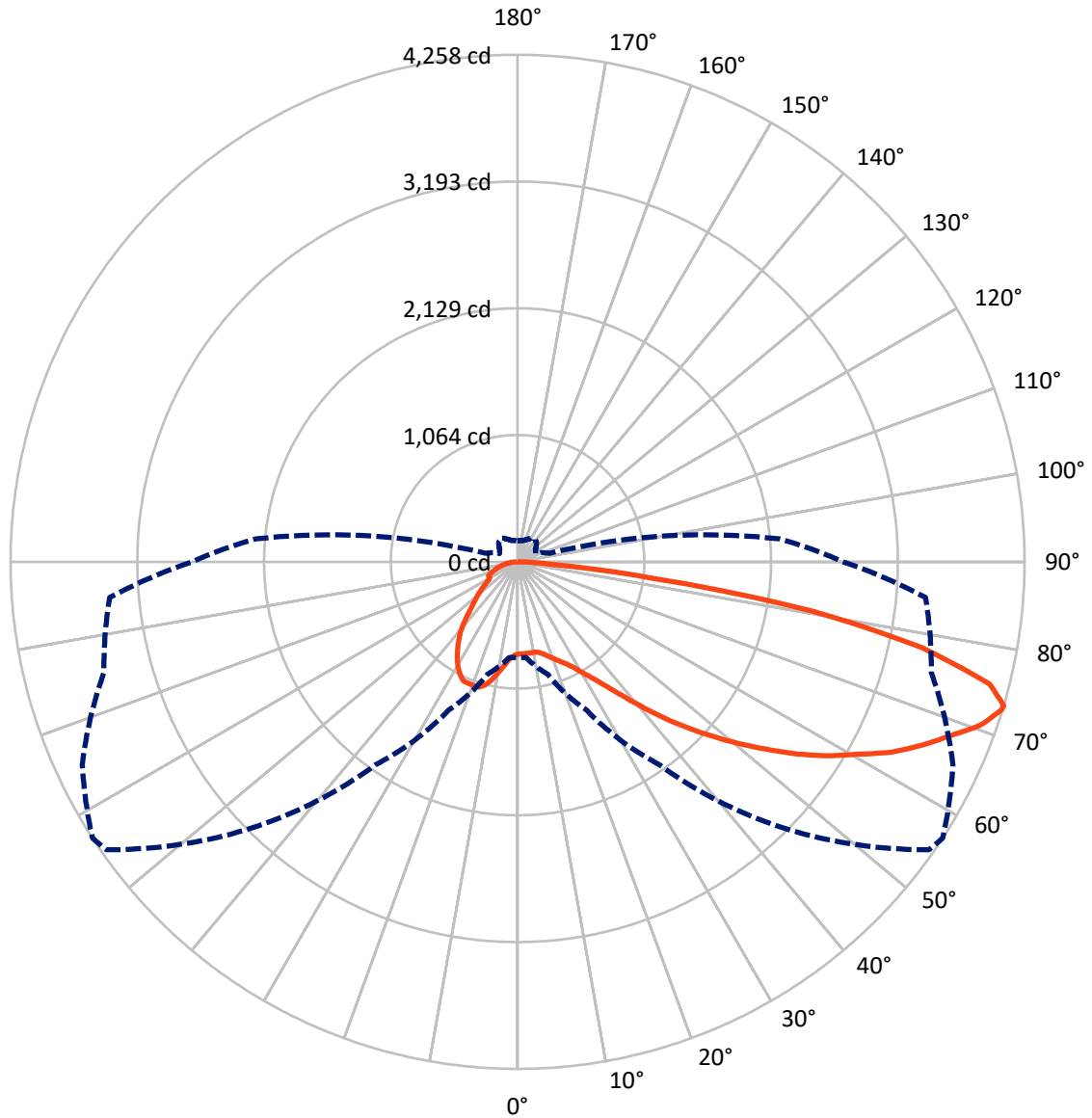
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.6 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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

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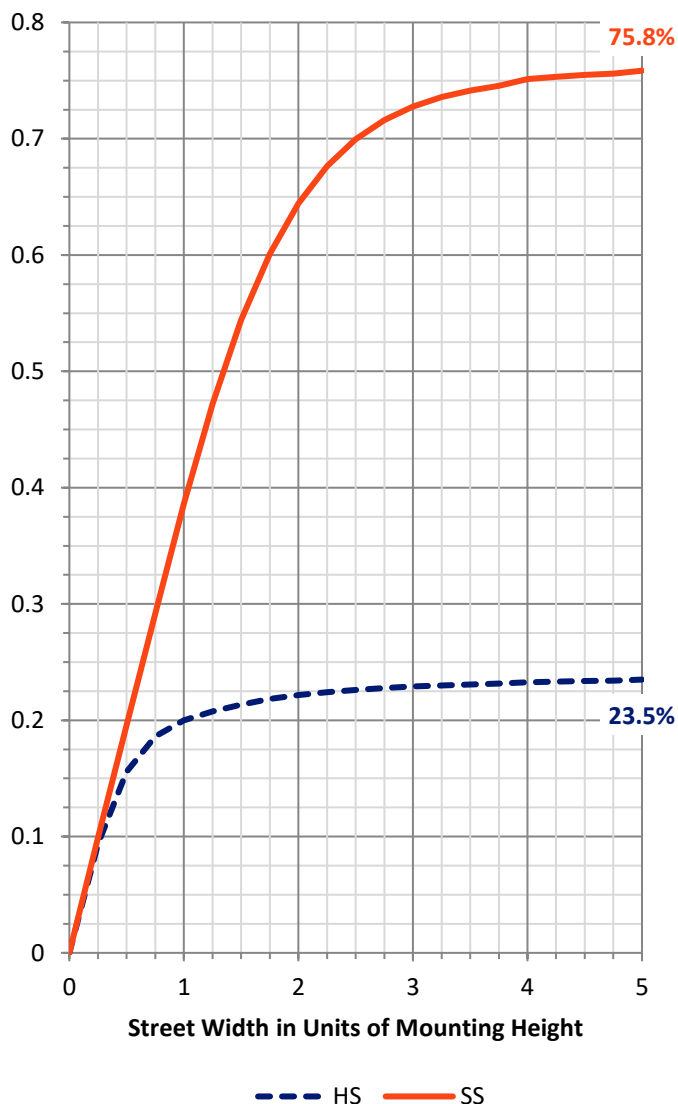
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1835.1	0.0	1835.1
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	5857.0	0.0	5857.0
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	7692.0	0.0	7692.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.3	1.0
10°-20°	254.5	3.3
20°-30°	469.8	6.1
30°-40°	725.4	9.4
40°-50°	1091.9	14.2
50°-60°	1598.1	20.8
60°-70°	1887.2	24.5
70°-80°	1351.1	17.6
80°-90°	236.7	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°	7692.0	100.0
0°-180°	7692.0	100.0

**Coefficient of Utilization**

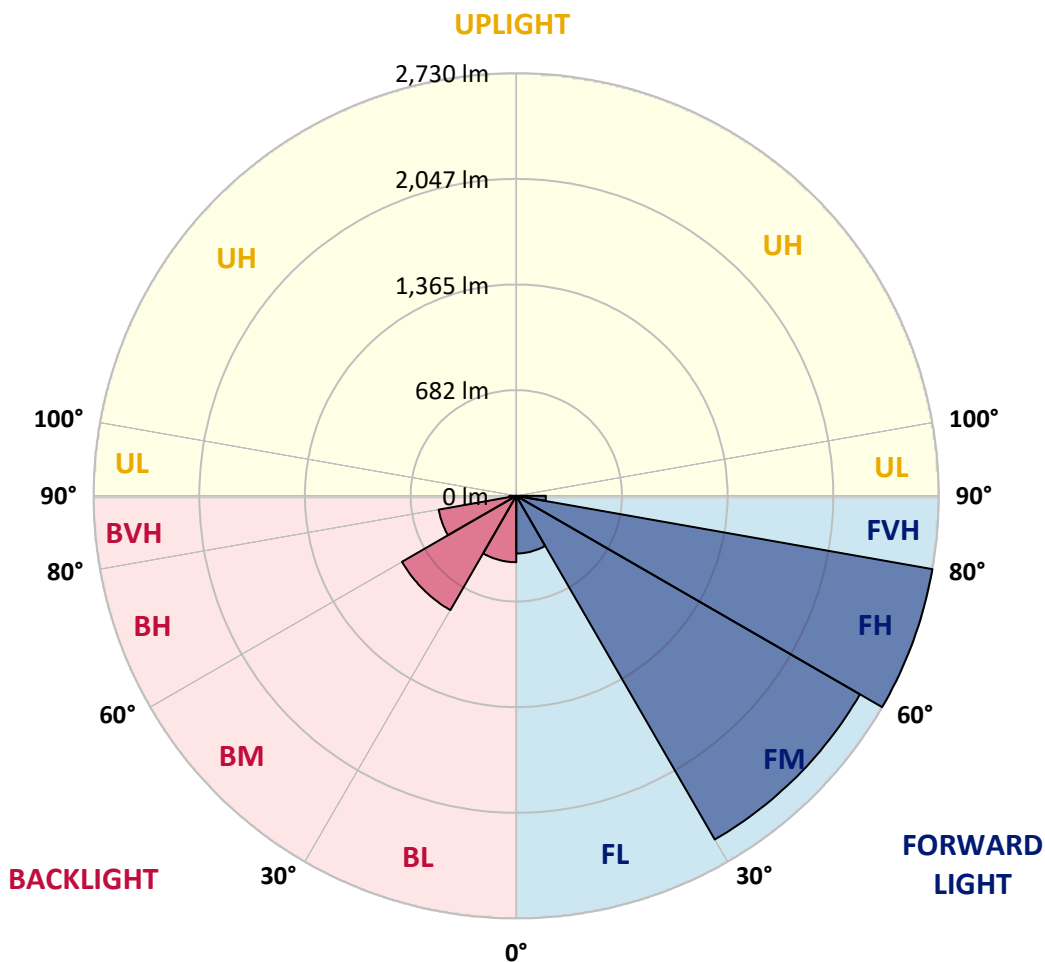


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	372.7	4.8			
FM (30°-60°)	2563.2	33.3			
FH (60°-80°)	2729.5	35.5			G2/5000
FVH (80°-90°)	191.5	2.5			G2/225
BL (0°-30°)	428.9	5.6	B1/500		
BM (30°-60°)	852.2	11.1	B1/1000		
BH (60°-80°)	508.8	6.6	B2/1000		G2/1000
BVH (80°-90°)	45.2	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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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0
2.5°	765.5	769.3	767.4	769.3	775.0	771.2	771.2	773.1	775.0	773.1	776.9
5°	733.5	735.4	739.1	746.7	759.9	763.7	773.1	773.1	776.9	780.6	786.3
7.5°	680.7	684.5	692.0	699.5	722.2	744.8	769.3	773.1	786.3	795.7	799.5
10°	671.3	675.0	676.9	688.2	710.9	733.5	763.7	771.2	795.7	810.8	827.8
12.5°	661.8	665.6	671.3	686.4	714.6	739.1	771.2	778.7	808.9	839.1	859.8
15°	669.4	671.3	676.9	692.0	720.3	754.2	795.7	801.4	835.3	873.0	905.1
17.5°	688.2	690.1	688.2	701.4	727.8	767.4	824.0	833.4	874.9	912.6	944.7
20°	731.6	733.5	725.9	725.9	744.8	784.4	854.2	867.4	918.3	959.8	991.8
22.5°	825.9	822.1	803.3	778.7	778.7	810.8	888.1	907.0	971.1	1005.0	1033.3
25°	959.8	959.8	929.6	884.3	854.2	850.4	927.7	948.4	1023.9	1065.4	1082.3
27.5°	1121.9	1123.8	1074.8	1014.4	956.0	927.7	984.3	1005.0	1089.9	1133.2	1138.9
30°	1265.2	1267.1	1218.1	1161.5	1089.9	1027.6	1059.7	1082.3	1180.4	1214.3	1195.5
32.5°	1408.5	1410.4	1376.5	1299.2	1223.7	1146.4	1155.9	1169.1	1269.0	1301.0	1270.9
35°	1533.0	1538.6	1504.7	1446.2	1367.0	1297.3	1280.3	1282.2	1372.7	1393.4	1353.8
37.5°	1659.3	1659.3	1638.6	1583.9	1516.0	1438.7	1416.1	1421.7	1502.8	1523.5	1467.0
40°	1819.6	1827.1	1815.8	1747.9	1670.6	1606.5	1583.9	1591.4	1680.0	1668.7	1608.4
42.5°	2013.8	2030.8	2011.9	1938.4	1855.4	1783.8	1783.8	1783.8	1859.2	1861.1	1770.6
45°	2262.7	2262.7	2243.8	2179.7	2070.4	1998.7	1974.2	1979.9	2045.9	2053.4	1947.8
47.5°	2470.1	2489.0	2468.2	2421.1	2334.3	2266.5	2189.2	2179.7	2234.4	2234.4	2143.9
50°	2637.9	2671.9	2654.9	2675.6	2613.4	2579.5	2421.1	2394.7	2413.5	2432.4	2332.5
52.5°	2777.5	2803.9	2798.2	2858.5	2888.7	2907.6	2656.8	2615.3	2630.4	2628.5	2538.0
55°	2786.9	2796.3	2881.2	3016.9	3135.7	3224.3	2894.4	2849.1	2834.0	2826.5	2756.7
57.5°	2732.2	2737.9	2907.6	3067.8	3326.2	3428.0	3118.7	3073.5	3052.7	3026.4	2998.1
60°	2600.2	2628.5	2851.0	3098.0	3439.3	3586.4	3328.0	3280.9	3265.8	3209.3	3273.4
62.5°	2432.4	2445.6	2668.1	3035.8	3454.4	3654.2	3548.7	3520.4	3473.2	3392.2	3518.5
65°	2194.8	2192.9	2389.0	2852.9	3377.1	3688.2	3735.3	3720.2	3661.8	3522.3	3737.2
67.5°	1802.6	1846.0	2038.3	2528.6	3190.4	3722.1	3925.8	3906.9	3814.5	3639.2	3840.9
70°	1374.6	1401.0	1619.7	2042.1	2818.9	3629.7	4112.4	4118.1	3950.3	3663.7	3795.7
72.5°	876.8	922.0	1095.5	1487.7	2257.0	3286.6	4223.7	4250.1	4025.7	3629.7	3514.7
73°	803.3	807.0	976.7	1376.5	2081.7	3164.0	4216.2	4257.6	4033.3	3595.8	3437.4
75°	478.9	499.7	601.5	914.5	1485.8	2541.8	4012.5	4095.5	3993.7	3444.9	3013.2
77.5°	224.4	239.5	296.0	482.7	808.9	1529.2	3373.3	3471.3	3539.2	3015.0	2296.6
80°	118.8	120.7	145.2	243.2	433.7	629.8	2351.3	2513.5	2609.6	2270.2	1544.3
82.5°	99.9	99.9	113.1	156.5	277.2	245.1	969.2	1154.0	1414.2	1118.1	607.2
85°	81.1	83.0	113.1	116.9	198.0	126.3	231.9	290.4	548.7	494.0	67.9
87.5°	26.4	30.2	64.1	83.0	105.6	49.0	58.5	64.1	64.1	94.3	22.6
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°	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0	775.0
2.5°	778.7	778.7	780.6	782.5	786.3	786.3	790.1	791.9	795.7	797.6	791.9
5°	786.3	790.1	793.8	805.1	818.3	829.7	841.0	850.4	859.8	865.5	863.6
7.5°	807.0	812.7	827.8	848.5	874.9	891.9	908.8	925.8	933.4	937.1	937.1
10°	835.3	846.6	874.9	908.8	939.0	965.4	978.6	989.9	993.7	997.5	993.7
12.5°	874.9	890.0	933.4	976.7	1010.7	1023.9	1022.0	1006.9	986.2	982.4	978.6
15°	925.8	944.7	993.7	1044.6	1071.0	1054.0	1010.7	995.6	991.8	1003.1	999.4
17.5°	969.2	991.8	1052.2	1104.9	1099.3	1040.8	1027.6	1035.2	1031.4	1033.3	1033.3
20°	1010.7	1042.7	1106.8	1142.7	1093.6	1055.9	1044.6	1035.2	1023.9	1027.6	1023.9
22.5°	1063.5	1086.1	1159.6	1161.5	1086.1	1055.9	1031.4	1012.6	1008.8	1010.7	1012.6
25°	1104.9	1140.8	1204.9	1148.3	1086.1	1025.8	991.8	988.0	989.9	1001.2	997.5
27.5°	1161.5	1197.3	1240.7	1140.8	1040.8	976.7	963.5	961.6	948.4	952.2	952.2
30°	1214.3	1257.7	1259.6	1140.8	984.3	935.2	916.4	882.5	854.2	859.8	857.9
32.5°	1286.0	1323.7	1263.3	1095.5	920.2	880.6	829.7	776.9	763.7	771.2	773.1
35°	1368.9	1399.1	1267.1	1020.1	856.1	803.3	710.9	680.7	678.8	684.5	690.1
37.5°	1478.3	1495.3	1295.4	933.4	793.8	682.6	610.9	603.4	586.4	575.1	577.0
40°	1612.2	1591.4	1350.1	856.1	720.3	573.2	543.0	522.3	490.3	458.2	463.9
42.5°	1761.1	1702.7	1367.0	793.8	620.4	505.3	477.1	445.0	405.4	371.5	369.6
45°	1921.4	1827.1	1352.0	744.8	520.4	454.4	424.3	386.5	339.4	311.1	311.1
47.5°	2111.8	1945.9	1304.8	705.2	450.7	409.2	371.5	333.7	301.7	275.3	275.3
50°	2321.1	2083.6	1270.9	635.4	401.6	365.8	328.1	297.9	273.4	252.7	252.7
52.5°	2541.8	2213.7	1242.6	533.6	358.3	326.2	299.8	275.3	254.6	228.2	224.4
55°	2766.1	2338.1	1255.8	435.6	318.7	297.9	281.0	256.4	248.9	243.2	239.5
57.5°	3000.0	2473.9	1287.8	356.4	284.7	282.8	275.3	292.3	309.2	297.9	292.3
60°	3182.9	2579.5	1291.6	299.8	264.0	297.9	335.6	341.3	296.0	269.6	267.8
62.5°	3328.0	2679.4	1203.0	260.2	269.6	350.7	358.3	301.7	256.4	245.1	245.1
65°	3403.5	2715.2	967.3	237.6	281.0	335.6	324.3	271.5	239.5	237.6	237.6
67.5°	3365.8	2686.9	676.9	213.1	248.9	290.4	290.4	248.9	220.6	230.0	226.3
70°	3184.7	2547.4	446.9	192.3	218.7	262.1	269.6	231.9	205.5	211.2	205.5
72.5°	2807.6	2298.5	294.2	169.7	188.6	231.9	250.8	213.1	188.6	186.7	181.0
73°	2734.1	2204.2	277.2	165.9	182.9	224.4	245.1	209.3	184.8	179.1	175.4
75°	2319.3	1838.4	209.3	149.0	162.2	201.8	228.2	196.1	169.7	162.2	158.4
77.5°	1689.5	1274.7	156.5	126.3	135.8	175.4	201.8	179.1	150.8	141.4	139.5
80°	1054.0	693.9	116.9	101.8	107.5	147.1	177.2	160.3	130.1	118.8	116.9
82.5°	412.9	226.3	81.1	75.4	79.2	111.2	149.0	139.5	109.4	99.9	94.3
85°	67.9	77.3	52.8	50.9	50.9	79.2	113.1	107.5	73.5	64.1	56.6
87.5°	18.9	35.8	20.7	18.9	18.9	33.9	62.2	49.0	30.2	24.5	22.6
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)