

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: P594876

Luminaire Tested: **ISS-PA1F-735-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594876  
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-PA1F-735-U-T2R  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10946 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

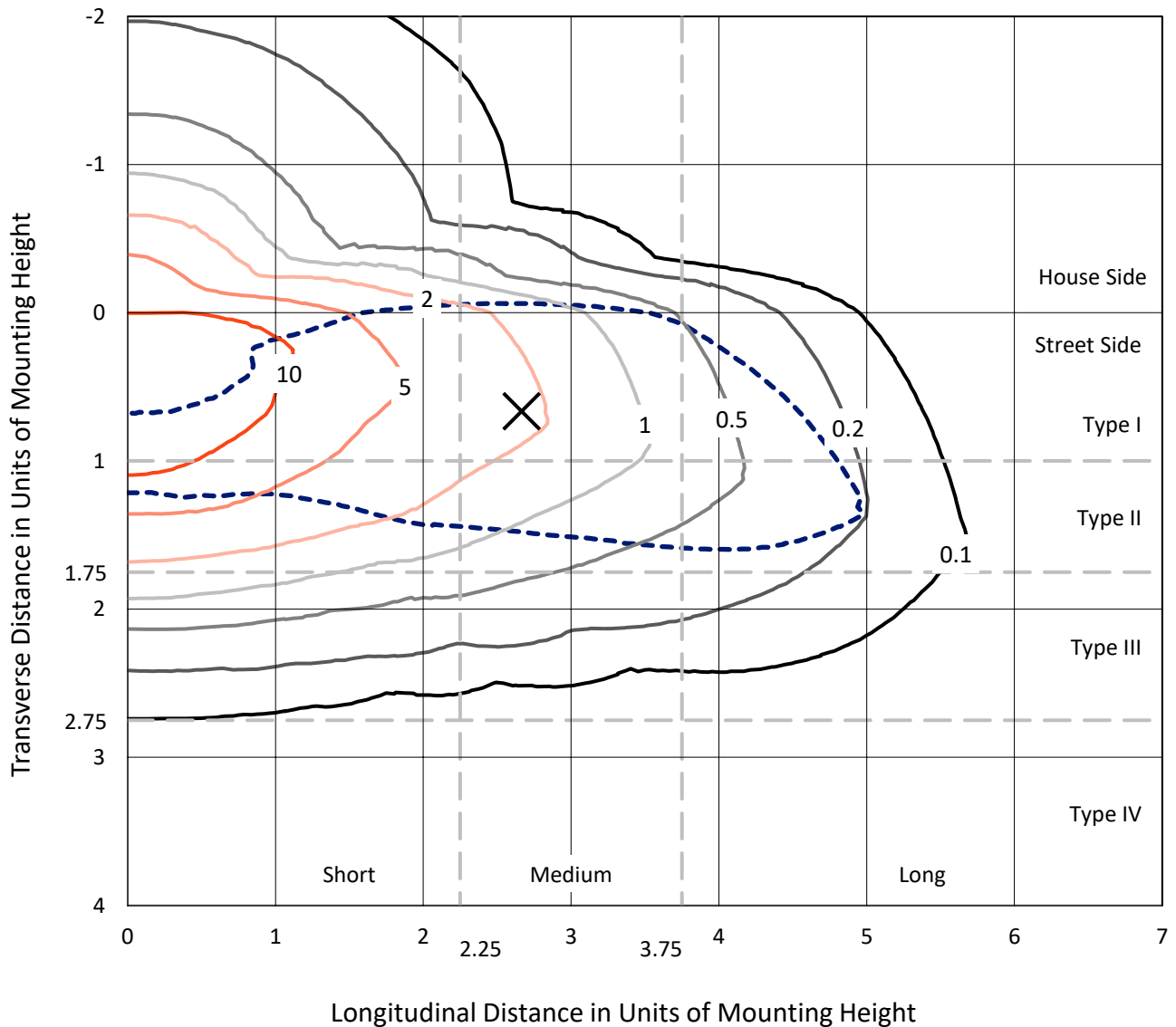
Input Watts (W): 94.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

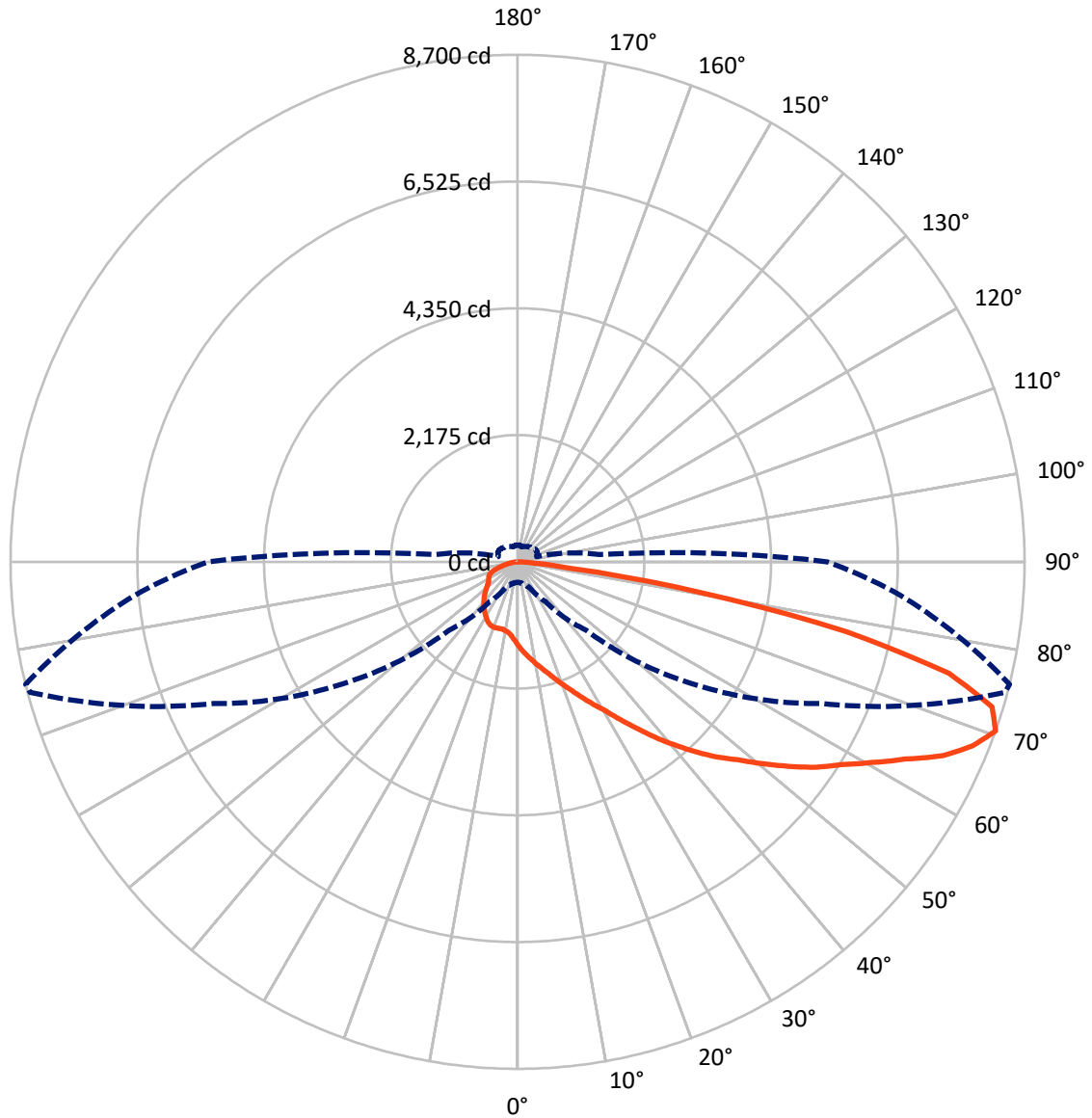
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 17.3 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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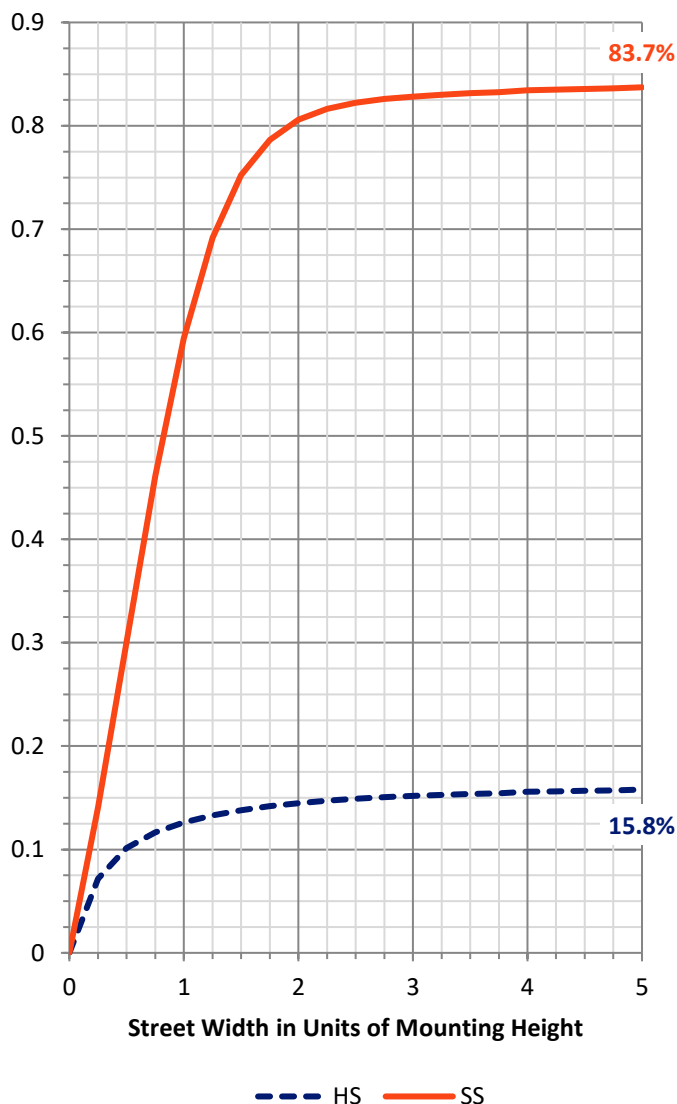
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1755.6	0.0	1755.6
	% Fixture	16.0	0.0	16.0
<b>Street Side</b>	Lumens	9190.4	0.0	9190.4
	% Fixture	84.0	0.0	84.0
<b>Total</b>	Lumens	10946.0	0.0	10946.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.0	1.3
10°-20°	461.8	4.2
20°-30°	851.1	7.8
30°-40°	1426.0	13.0
40°-50°	2026.2	18.5
50°-60°	2339.4	21.4
60°-70°	2150.5	19.6
70°-80°	1356.0	12.4
80°-90°	195.0	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°	10946.0	100.0
0°-180°	10946.0	100.0

**Coefficient of Utilization**

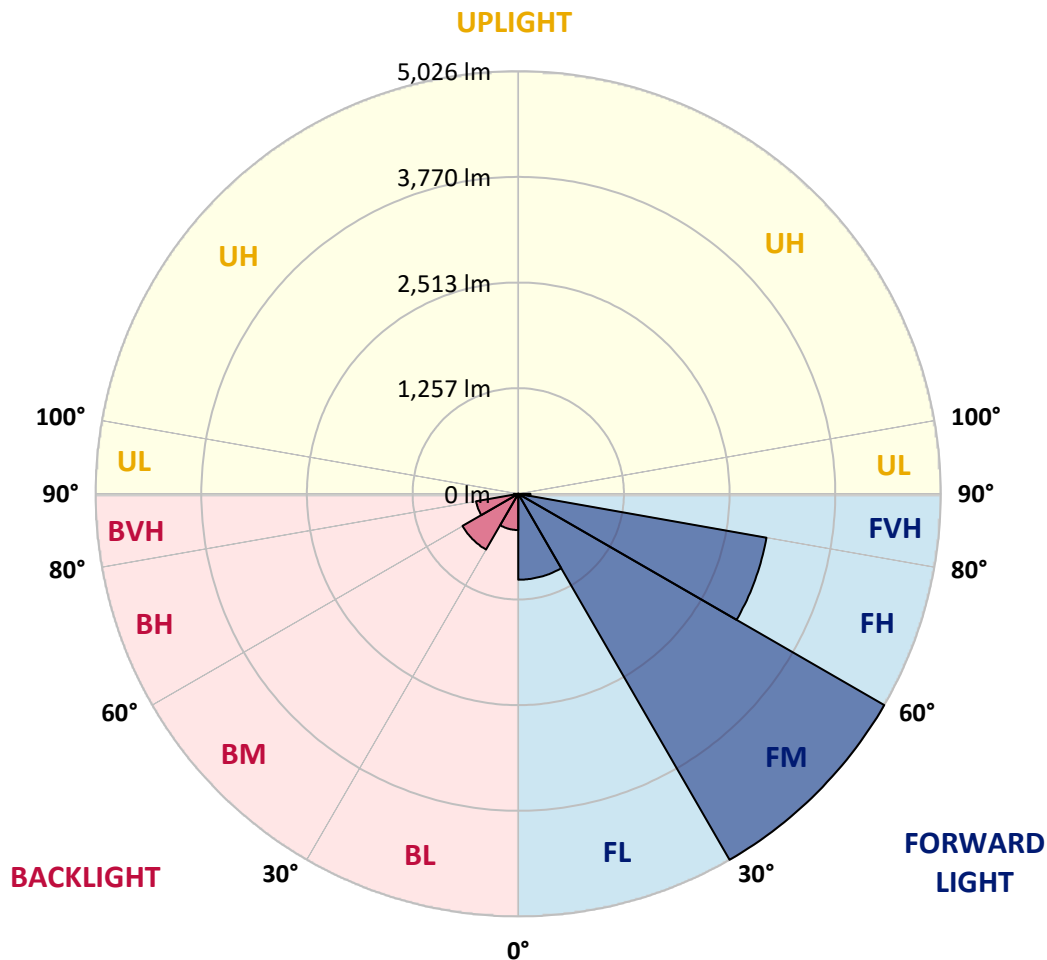


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1021.9	9.3			
FM (30°-60°)	5026.2	45.9			
FH (60°-80°)	2997.7	27.4			G2/5000
FVH (80°-90°)	144.6	1.3			G2/225
BL (0°-30°)	430.9	3.9	B1/500		
BM (30°-60°)	765.4	7.0	B1/1000		
BH (60°-80°)	508.8	4.6	B2/1000		G2/1000
BVH (80°-90°)	50.5	0.5			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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0
2.5°	1728.4	1725.8	1717.9	1704.7	1694.2	1662.5	1620.4	1583.5	1528.2	1522.9	1467.6
5°	1883.9	1873.3	1873.3	1860.2	1847.0	1812.7	1760.0	1694.2	1615.1	1609.8	1504.5
7.5°	1957.6	1960.3	1955.0	1944.5	1947.1	1918.1	1870.7	1804.8	1696.8	1691.5	1554.5
10°	2063.0	2060.4	2049.9	2041.9	2039.3	2013.0	1970.8	1910.2	1796.9	1786.4	1612.5
12.5°	2165.8	2157.9	2160.5	2157.9	2152.6	2126.3	2086.7	2026.1	1886.5	1881.2	1683.6
15°	2223.7	2221.1	2239.6	2244.8	2265.9	2242.2	2207.9	2139.4	2013.0	1991.9	1767.9
17.5°	2260.6	2258.0	2276.4	2318.6	2358.1	2358.1	2347.6	2273.8	2134.2	2118.4	1862.8
20°	2323.9	2334.4	2366.0	2400.3	2458.2	2468.8	2466.1	2434.5	2273.8	2258.0	1968.2
22.5°	2450.3	2445.1	2471.4	2524.1	2576.8	2592.6	2595.3	2595.3	2434.5	2405.5	2076.2
25°	2721.7	2708.5	2687.5	2682.2	2745.4	2742.8	2734.9	2753.3	2603.2	2582.1	2200.0
27.5°	3238.1	3209.2	3127.5	2964.1	2927.2	2940.4	2900.9	2903.5	2795.5	2769.1	2305.4
30°	3728.2	3715.0	3638.6	3441.0	3232.9	3159.1	3090.6	3061.6	3008.9	2964.1	2418.7
32.5°	4170.8	4173.5	4081.3	3865.2	3651.8	3419.9	3301.4	3240.8	3261.9	3222.3	2574.2
35°	4471.2	4447.5	4389.5	4244.6	4012.8	3791.4	3564.8	3430.5	3543.8	3499.0	2729.6
37.5°	4647.7	4629.3	4581.9	4479.1	4363.2	4149.8	3862.6	3657.1	3878.4	3812.5	2927.2
40°	4737.3	4711.0	4663.6	4621.4	4566.1	4450.1	4197.2	3915.3	4184.0	4126.1	3122.2
42.5°	4747.9	4729.4	4703.1	4682.0	4700.4	4684.6	4523.9	4215.6	4505.5	4442.2	3346.2
45°	4740.0	4753.1	4721.5	4684.6	4721.5	4855.9	4855.9	4516.0	4824.3	4776.8	3559.6
47.5°	4745.2	4732.1	4721.5	4711.0	4716.2	4900.7	5085.1	4797.9	5129.9	5074.6	3809.9
50°	4526.5	4545.0	4634.6	4674.1	4697.8	4911.2	5269.5	5103.6	5509.3	5440.8	4089.2
52.5°	3831.0	3841.5	4249.9	4545.0	4639.8	4869.1	5398.7	5443.4	5883.5	5830.8	4389.5
55°	2950.9	3006.3	3393.6	4115.5	4508.1	4797.9	5438.2	5664.8	6265.5	6223.3	4692.5
57.5°	2429.3	2437.2	2661.1	3306.6	4091.8	4732.1	5477.7	5867.6	6608.0	6560.6	5008.7
60°	2015.6	1997.2	2134.2	2550.5	3398.9	4468.6	5485.6	6028.4	7005.9	6990.1	5335.4
62.5°	1480.7	1501.8	1633.6	1986.6	2658.5	3933.7	5446.1	6165.4	7480.1	7459.0	5699.0
65°	909.0	935.3	1096.1	1420.1	2013.0	3122.2	5187.9	6236.5	7978.1	8025.5	6091.6
67.5°	482.2	500.6	595.5	858.9	1380.6	2379.2	4566.1	6146.9	8399.7	8420.7	6468.4
70°	353.1	355.7	387.3	484.8	832.6	1654.6	3636.0	5757.0	8657.9	8700.0	6592.2
72.5°	308.3	310.9	324.1	347.8	453.2	1009.1	2605.8	5077.2	8549.8	8513.0	6384.1
75°	279.3	279.3	289.8	297.7	332.0	558.6	1596.7	4155.0	7725.2	7643.5	5443.4
77.5°	239.8	239.8	250.3	260.8	287.2	361.0	835.2	3080.1	5907.2	5767.5	3722.9
80°	192.3	192.3	205.5	218.7	252.9	271.4	408.4	2060.4	3377.8	3172.3	1694.2
82.5°	131.7	142.3	166.0	181.8	210.8	192.3	239.8	890.6	1064.4	922.2	382.0
85°	79.0	84.3	118.6	137.0	158.1	102.8	147.5	342.5	318.8	279.3	86.9
87.5°	7.9	13.2	47.4	55.3	55.3	29.0	63.2	81.7	92.2	94.9	21.1
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°	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0	1436.0
2.5°	1436.0	1404.3	1343.7	1288.4	1233.1	1196.2	1159.3	1146.1	1127.7	1114.5	1125.0
5°	1449.1	1383.3	1267.3	1169.8	1104.0	1053.9	1030.2	1017.0	1006.5	1003.8	1001.2
7.5°	1464.9	1367.4	1212.0	1104.0	1040.7	1017.0	1011.8	1011.8	1011.8	1014.4	1017.0
10°	1499.2	1372.7	1183.0	1067.1	1032.8	1027.6	1030.2	1040.7	1040.7	1043.4	1043.4
12.5°	1538.7	1385.9	1161.9	1061.8	1040.7	1043.4	1046.0	1051.3	1051.3	1059.2	1056.5
15°	1596.7	1412.2	1159.3	1067.1	1048.6	1043.4	1043.4	1040.7	1040.7	1040.7	1046.0
17.5°	1670.4	1449.1	1161.9	1067.1	1040.7	1030.2	1022.3	1014.4	1003.8	1009.1	1003.8
20°	1744.2	1493.9	1161.9	1053.9	1019.7	993.3	969.6	956.4	943.2	940.6	943.2
22.5°	1836.4	1546.6	1148.8	1024.9	974.9	938.0	903.7	885.3	864.2	856.3	851.0
25°	1915.5	1588.8	1122.4	982.8	924.8	872.1	827.3	795.7	769.4	764.1	764.1
27.5°	1997.2	1625.7	1082.9	930.1	853.7	795.7	745.6	706.1	679.8	677.1	674.5
30°	2073.6	1657.3	1030.2	872.1	790.4	721.9	664.0	629.7	606.0	592.8	584.9
32.5°	2173.7	1699.4	980.1	814.1	716.7	648.2	595.5	566.5	534.9	513.8	505.9
35°	2300.2	1749.5	924.8	750.9	650.8	582.3	550.7	508.5	469.0	445.3	437.4
37.5°	2442.4	1820.6	866.8	685.0	584.9	534.9	516.4	450.5	408.4	400.5	397.9
40°	2619.0	1889.1	801.0	616.5	521.7	508.5	476.9	408.4	387.3	384.7	382.0
42.5°	2795.5	1962.9	737.7	548.0	471.6	476.9	432.1	397.9	379.4	374.1	371.5
45°	3001.0	2036.7	674.5	487.4	432.1	432.1	408.4	387.3	371.5	366.2	366.2
47.5°	3217.1	2110.5	606.0	434.7	403.1	387.3	389.9	374.1	363.6	358.3	355.7
50°	3488.4	2181.6	542.8	397.9	384.7	363.6	371.5	361.0	355.7	350.4	347.8
52.5°	3744.0	2213.2	484.8	376.8	374.1	353.1	355.7	350.4	347.8	339.9	337.3
55°	3994.3	2205.3	440.0	366.2	361.0	350.4	345.2	342.5	339.9	332.0	329.3
57.5°	4273.6	2194.8	411.0	363.6	353.1	342.5	342.5	334.6	324.1	324.1	324.1
60°	4563.4	2160.5	397.9	363.6	350.4	342.5	337.3	329.3	318.8	321.4	318.8
62.5°	4890.1	2094.6	389.9	371.5	353.1	339.9	334.6	324.1	310.9	313.5	310.9
65°	5177.3	1960.3	384.7	379.4	358.3	342.5	329.3	316.2	300.4	303.0	300.4
67.5°	5372.3	1733.7	368.9	384.7	366.2	339.9	324.1	305.6	284.6	295.1	292.5
70°	5317.0	1409.6	339.9	374.1	374.1	342.5	316.2	292.5	268.7	289.8	281.9
72.5°	4887.5	1059.2	284.6	337.3	368.9	342.5	300.4	271.4	250.3	263.5	247.7
75°	4012.8	719.3	226.6	268.7	345.2	345.2	287.2	250.3	224.0	216.1	210.8
77.5°	2503.0	447.9	176.5	197.6	289.8	342.5	274.0	224.0	187.1	181.8	176.5
80°	990.7	239.8	139.6	142.3	213.4	313.5	255.6	189.7	150.2	144.9	134.4
82.5°	226.6	121.2	97.5	94.9	131.7	255.6	231.9	150.2	115.9	115.9	97.5
85°	68.5	63.2	63.2	60.6	65.9	131.7	179.2	102.8	79.0	55.3	47.4
87.5°	18.4	26.3	23.7	21.1	21.1	18.4	58.0	26.3	15.8	7.9	5.3
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)