

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: P594648

Luminaire Tested: **ISS-PA1C-740-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594648  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISS-PA1C-740-U-T4W  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 4000K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6796 lumens  
Efficiency: N/A  
Efficacy: 139.0 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

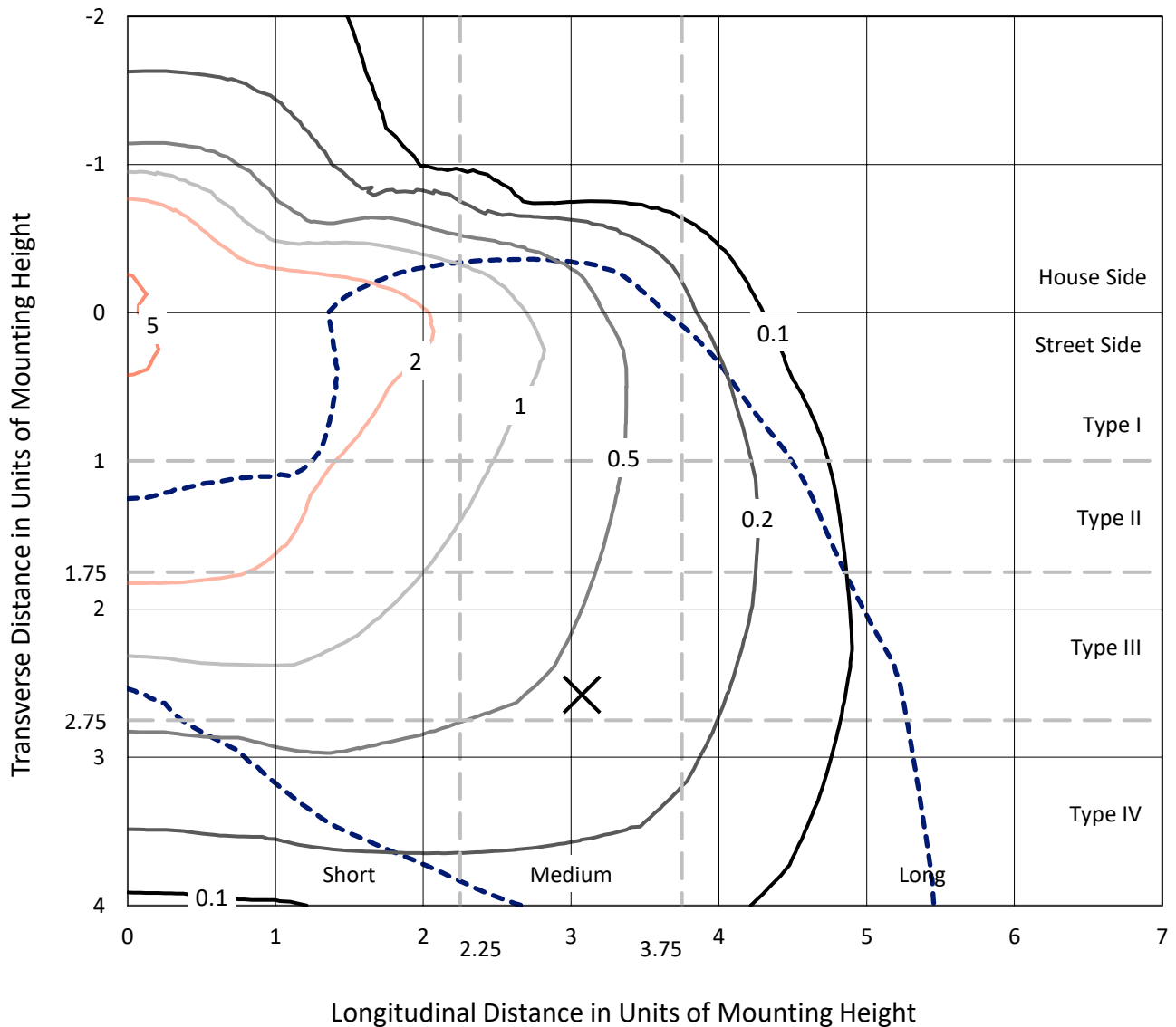
Input Watts (W): 48.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

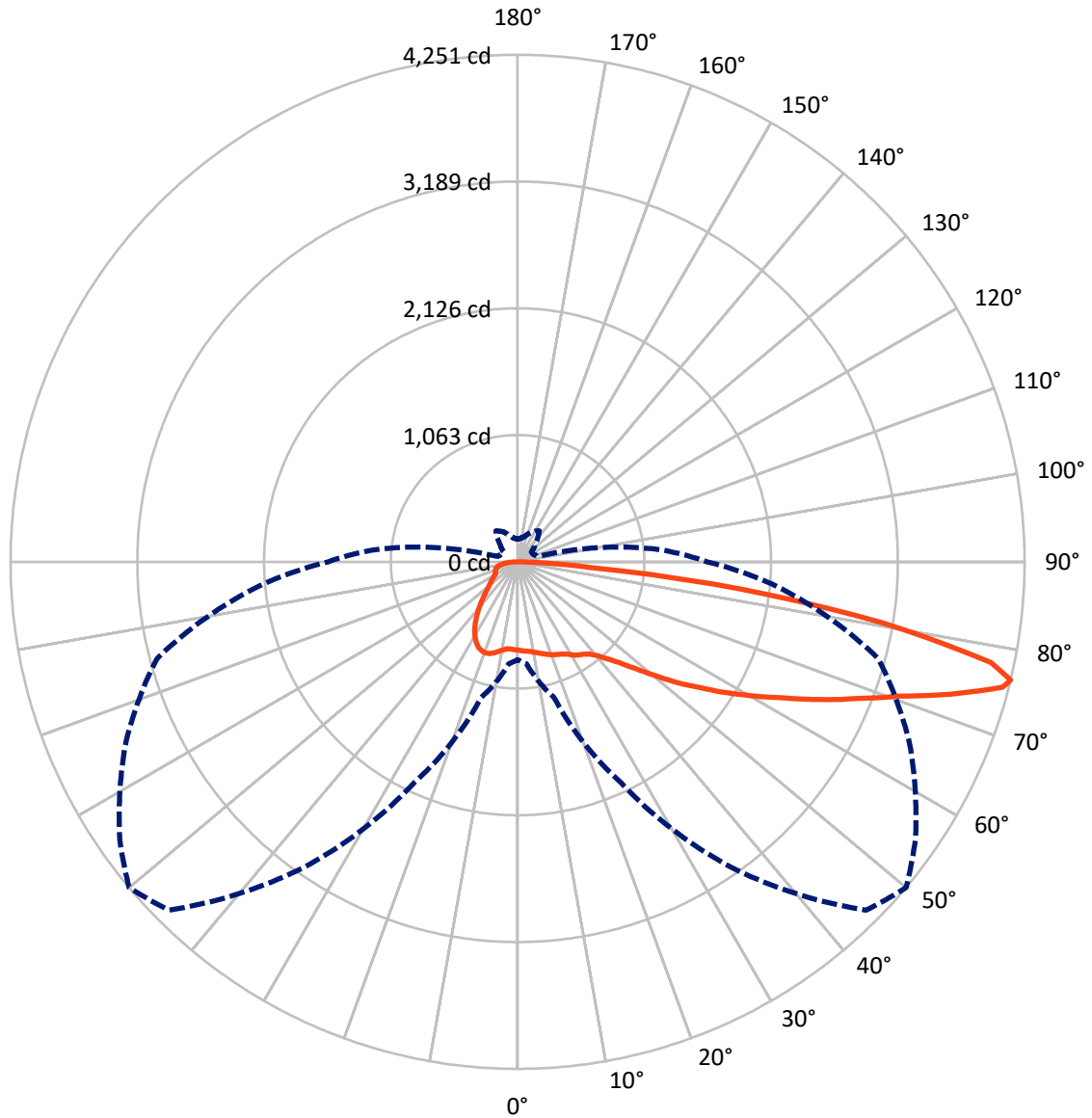
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.6 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral      - - - Horizontal Cone Through 76-Deg Vertical

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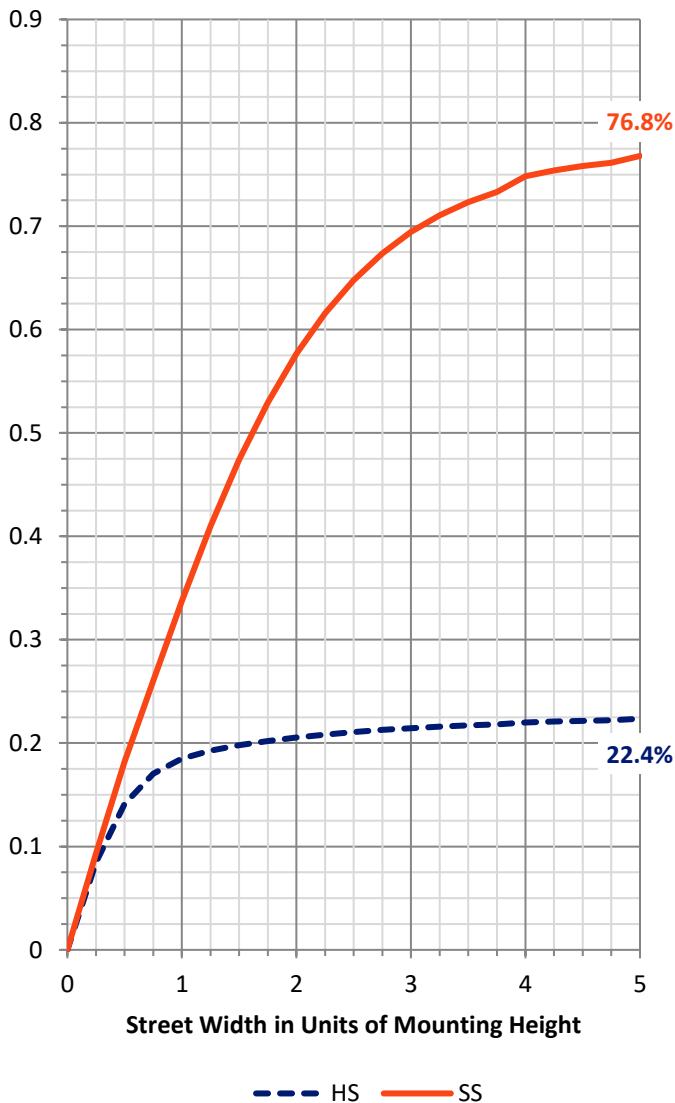
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1554.6	0.0	1554.6
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	5241.4	0.0	5241.4
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	6796.0	0.0	6796.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.9	1.1
10°-20°	226.1	3.3
20°-30°	382.0	5.6
30°-40°	523.6	7.7
40°-50°	771.2	11.3
50°-60°	1213.1	17.9
60°-70°	1746.2	25.7
70°-80°	1587.8	23.4
80°-90°	274.1	4.0
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°	6796.0	100.0
0°-180°	6796.0	100.0

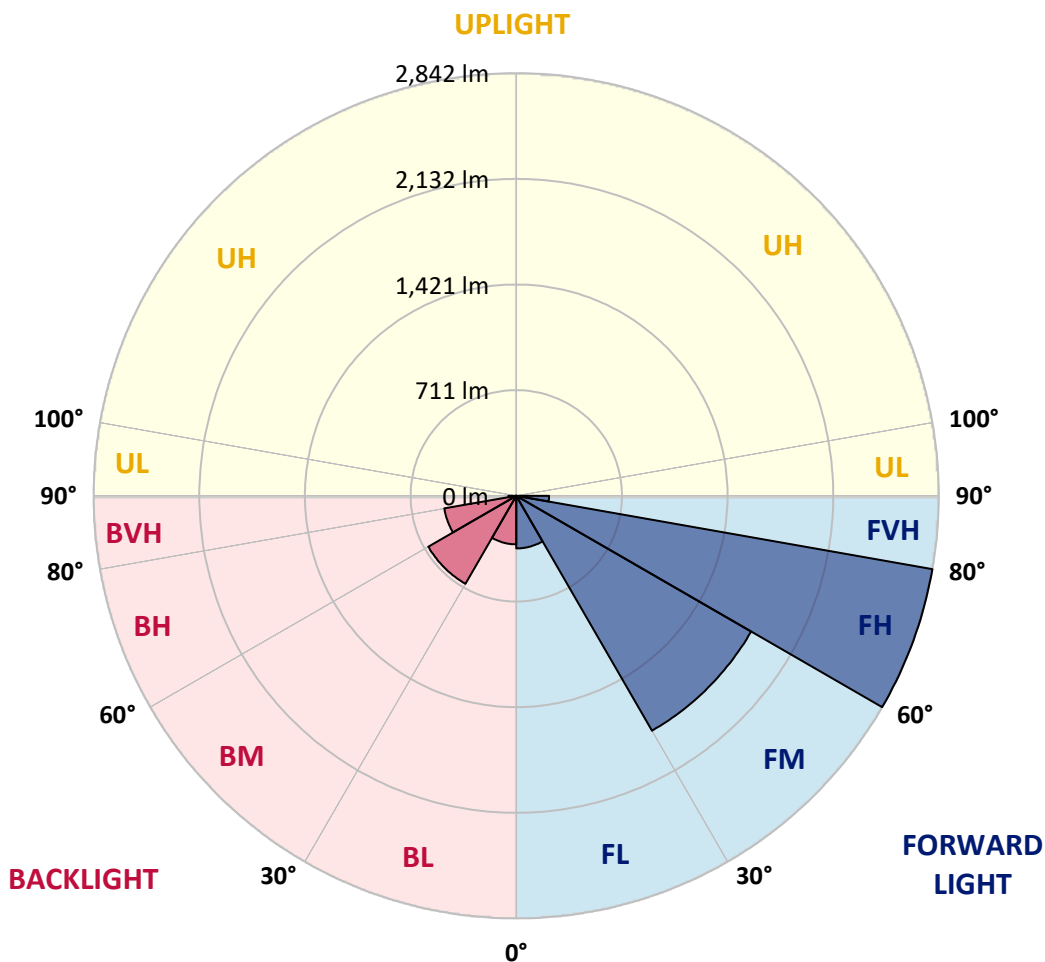


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	353.7	5.2			
FM (30°-60°)	1824.6	26.8			
FH (60°-80°)	2842.4	41.8			G2/5000
FVH (80°-90°)	220.6	3.2			G2/225
BL (0°-30°)	326.4	4.8	B1/500		
BM (30°-60°)	683.3	10.1	B1/1000		
BH (60°-80°)	491.5	7.2	B1/500		G1/500
BVH (80°-90°)	53.5	0.8			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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	740.7	740.7	740.7	740.7	740.7	740.7	740.7	740.7	740.7	740.7	740.7
2.5°	757.4	757.4	759.1	755.7	755.7	747.4	747.4	745.7	742.4	740.7	737.4
5°	785.7	785.7	780.7	772.4	767.4	757.4	752.4	749.1	742.4	734.1	725.8
7.5°	815.7	812.3	809.0	795.7	785.7	767.4	759.1	754.1	740.7	729.1	724.1
10°	847.3	842.3	834.0	817.3	802.3	780.7	770.7	764.1	749.1	739.1	727.4
12.5°	865.6	865.6	855.6	835.6	815.7	789.0	784.0	775.7	760.7	747.4	735.8
15°	883.9	885.6	875.6	852.3	829.0	809.0	800.7	795.7	779.0	759.1	744.1
17.5°	902.2	900.6	890.6	863.9	839.0	820.6	815.7	809.0	792.4	774.0	759.1
20°	915.5	912.2	908.9	875.6	850.6	839.0	832.3	827.3	810.7	790.7	770.7
22.5°	918.9	922.2	918.9	878.9	858.9	845.6	844.0	839.0	825.6	807.3	787.4
25°	920.5	922.2	927.2	888.9	870.6	860.6	857.3	853.9	844.0	829.0	802.3
27.5°	928.8	930.5	930.5	895.6	885.6	878.9	875.6	875.6	870.6	852.3	825.6
30°	930.5	932.2	935.5	912.2	908.9	903.9	905.5	903.9	895.6	875.6	845.6
32.5°	942.2	943.8	952.2	922.2	925.5	930.5	932.2	930.5	913.9	897.2	872.3
35°	980.5	978.8	985.4	947.2	943.8	945.5	950.5	948.8	942.2	927.2	910.5
37.5°	1103.6	1103.6	1085.3	1005.4	980.5	977.1	980.5	988.8	990.4	977.1	963.8
40°	1320.0	1308.4	1298.4	1125.3	1045.4	1025.4	1035.4	1040.4	1053.7	1053.7	1053.7
42.5°	1543.1	1544.8	1541.4	1311.7	1161.9	1112.0	1113.6	1125.3	1153.6	1158.6	1173.5
45°	1741.2	1752.8	1777.8	1528.1	1333.3	1221.8	1210.2	1221.8	1261.8	1295.1	1333.3
47.5°	1896.0	1882.7	1937.6	1754.5	1529.8	1371.6	1341.7	1345.0	1399.9	1453.2	1513.1
50°	2029.2	2032.5	2057.4	1985.9	1777.8	1541.4	1501.5	1494.8	1573.1	1629.6	1731.2
52.5°	2179.0	2169.0	2205.6	2189.0	2019.2	1749.5	1686.2	1666.3	1751.2	1831.1	1940.9
55°	2250.5	2260.5	2335.4	2377.1	2247.2	1935.9	1866.0	1872.7	1962.6	2047.5	2200.6
57.5°	2377.1	2387.0	2473.6	2560.2	2450.3	2134.0	2072.4	2072.4	2174.0	2268.9	2505.2
60°	2550.2	2551.8	2640.1	2789.9	2628.4	2325.5	2285.5	2283.8	2393.7	2503.6	2864.8
62.5°	2626.7	2646.7	2778.2	2973.0	2861.5	2560.2	2513.6	2526.9	2625.1	2753.3	3266.0
65°	2523.5	2566.8	2841.5	3096.2	3069.5	2804.9	2786.5	2804.9	2864.8	3002.9	3690.4
67.5°	2182.3	2240.6	2725.0	3179.4	3236.0	3087.8	3061.2	3057.9	3096.2	3251.0	3958.4
70°	2005.8	2040.8	2417.0	3211.0	3369.2	3374.2	3374.2	3352.5	3347.5	3460.7	3983.4
72.5°	1651.3	1687.9	2039.1	3034.6	3495.7	3757.0	3795.3	3715.4	3592.2	3568.9	3565.6
75°	1176.9	1203.5	1506.5	2387.0	3334.2	4124.9	4201.5	4046.7	3703.7	3332.5	2600.1
76°	820.6	858.9	1176.9	2039.1	3131.1	4131.5	4251.4	4071.6	3628.8	3129.5	2142.3
77.5°	416.2	429.5	680.8	1370.0	2620.1	3941.8	4058.3	3856.9	3302.6	2528.5	1360.0
80°	158.1	163.1	243.0	499.4	1438.2	3061.2	3106.2	2834.8	2185.6	1080.3	489.4
82.5°	83.2	86.6	136.5	246.4	590.9	1682.9	1899.3	1581.4	857.3	324.6	143.2
85°	41.6	44.9	79.9	149.8	293.0	526.0	609.2	576.0	284.6	123.2	53.3
87.5°	16.6	20.0	40.0	66.6	118.2	103.2	114.9	148.1	91.6	58.3	18.3
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°	740.7	740.7	740.7	740.7	740.7	740.7	740.7	740.7	740.7	740.7	740.7
2.5°	737.4	735.8	737.4	735.8	737.4	737.4	739.1	735.8	735.8	739.1	734.1
5°	725.8	724.1	725.8	729.1	730.8	734.1	740.7	739.1	742.4	745.7	747.4
7.5°	720.8	719.1	724.1	725.8	730.8	737.4	747.4	754.1	757.4	764.1	760.7
10°	725.8	725.8	732.4	737.4	745.7	754.1	762.4	769.0	777.4	782.4	780.7
12.5°	734.1	732.4	744.1	750.7	762.4	770.7	777.4	780.7	787.4	794.0	792.4
15°	742.4	744.1	760.7	774.0	787.4	790.7	792.4	789.0	792.4	795.7	795.7
17.5°	759.1	760.7	779.0	794.0	805.7	802.3	794.0	785.7	785.7	787.4	789.0
20°	772.4	775.7	797.3	810.7	817.3	804.0	790.7	780.7	775.7	777.4	775.7
22.5°	787.4	794.0	815.7	822.3	812.3	795.7	779.0	765.7	765.7	767.4	767.4
25°	805.7	809.0	824.0	820.6	802.3	777.4	764.1	759.1	757.4	759.1	760.7
27.5°	822.3	824.0	832.3	809.0	774.0	747.4	742.4	744.1	745.7	747.4	749.1
30°	844.0	847.3	839.0	792.4	739.1	709.1	709.1	719.1	722.4	727.4	725.8
32.5°	870.6	873.9	848.9	770.7	694.1	664.2	665.8	680.8	690.8	694.1	695.8
35°	915.5	908.9	855.6	740.7	645.9	609.2	610.9	629.2	642.5	647.5	644.2
37.5°	970.5	968.8	865.6	702.5	585.9	552.6	554.3	562.6	576.0	577.6	579.3
40°	1062.0	1048.7	882.2	652.5	526.0	494.4	491.1	496.1	494.4	497.7	499.4
42.5°	1193.5	1158.6	903.9	595.9	472.7	439.5	436.1	427.8	417.8	407.8	402.8
45°	1348.3	1293.4	930.5	537.7	417.8	387.9	379.5	369.5	349.6	327.9	321.3
47.5°	1548.1	1443.2	960.5	479.4	366.2	342.9	336.2	321.3	298.0	273.0	268.0
50°	1752.8	1619.7	990.4	431.1	324.6	311.3	304.6	289.6	259.7	236.4	231.4
52.5°	1990.9	1794.4	1022.1	387.9	288.0	288.0	283.0	259.7	231.4	209.7	206.4
55°	2265.5	1974.2	1072.0	346.2	261.3	268.0	261.3	238.0	211.4	196.4	194.8
57.5°	2593.5	2202.3	1135.3	301.3	238.0	243.0	243.0	226.4	208.1	198.1	196.4
60°	2923.0	2433.7	1175.2	268.0	219.7	224.7	234.7	226.4	214.7	209.7	208.1
62.5°	3239.3	2670.0	1107.0	239.7	201.4	216.4	241.4	243.0	231.4	233.0	233.0
65°	3475.7	2849.8	895.6	214.7	189.8	221.4	261.3	263.0	243.0	238.0	236.4
67.5°	3557.3	2899.7	602.6	198.1	183.1	224.7	284.6	278.0	243.0	233.0	228.1
70°	3402.4	2716.6	391.2	183.1	173.1	221.4	303.0	286.3	241.4	226.4	219.7
72.5°	2853.1	2317.1	261.3	169.8	163.1	218.1	314.6	286.3	236.4	214.7	208.1
75°	1980.9	1583.0	194.8	153.1	148.1	213.1	317.9	281.3	224.7	201.4	196.4
76°	1589.7	1186.9	176.4	146.5	141.5	209.7	316.3	276.3	216.4	194.8	189.8
77.5°	1003.8	682.5	148.1	134.8	131.5	203.1	309.6	264.7	204.7	183.1	178.1
80°	351.2	249.7	113.2	109.9	111.5	188.1	291.3	241.4	181.4	161.5	154.8
82.5°	139.8	114.9	84.9	84.9	88.2	161.5	263.0	213.1	158.1	133.2	123.2
85°	54.9	49.9	59.9	59.9	63.3	131.5	219.7	166.5	108.2	83.2	79.9
87.5°	16.6	23.3	26.6	28.3	30.0	66.6	124.8	73.2	48.3	35.0	28.3
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)