

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: P594765

Luminaire Tested: **ISS-PA1D-830-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594765  
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-PA1D-830-U-T4W  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 80 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6728 lumens  
Efficiency: N/A  
Efficacy: 106.8 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

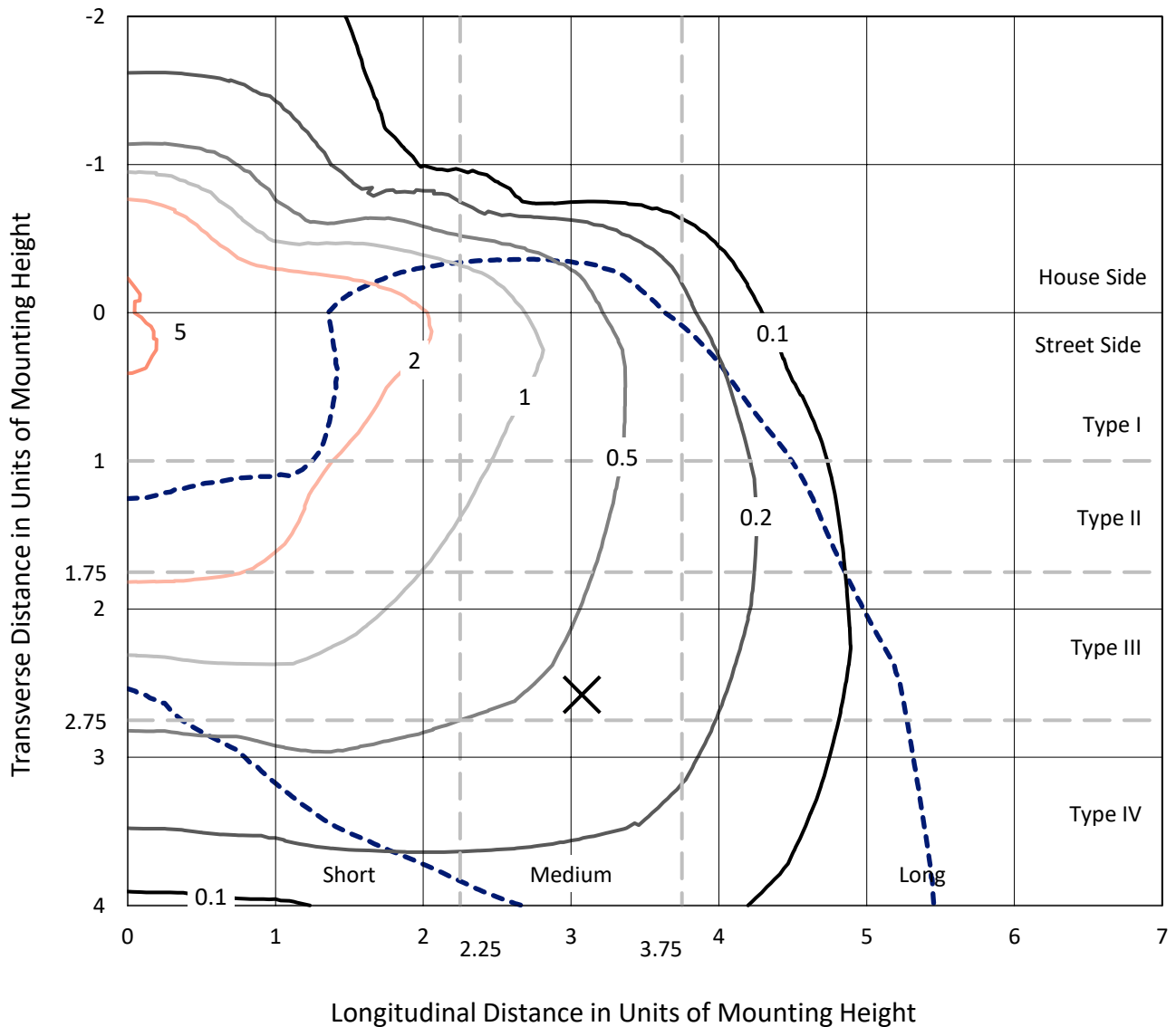
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

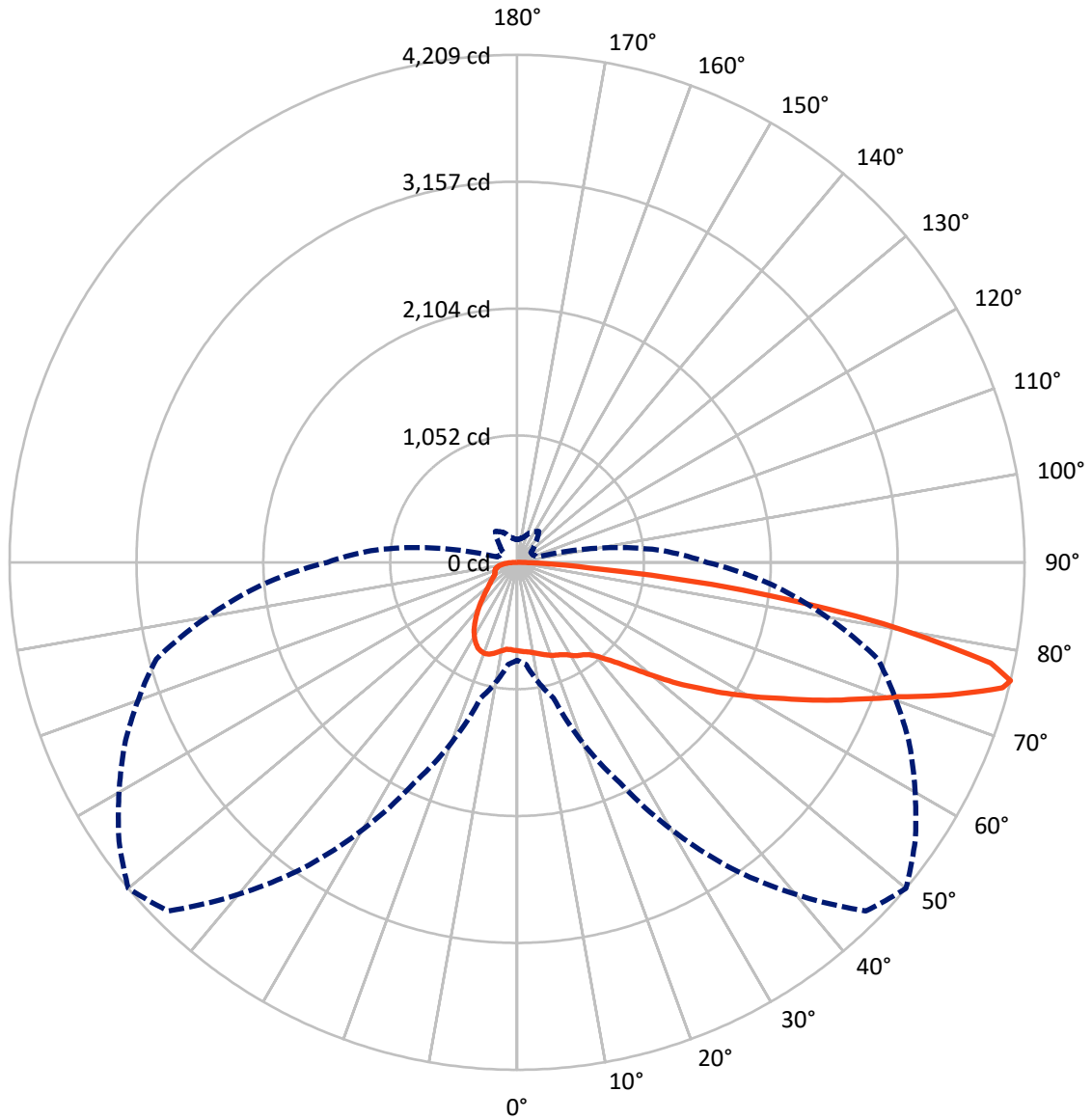
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.5 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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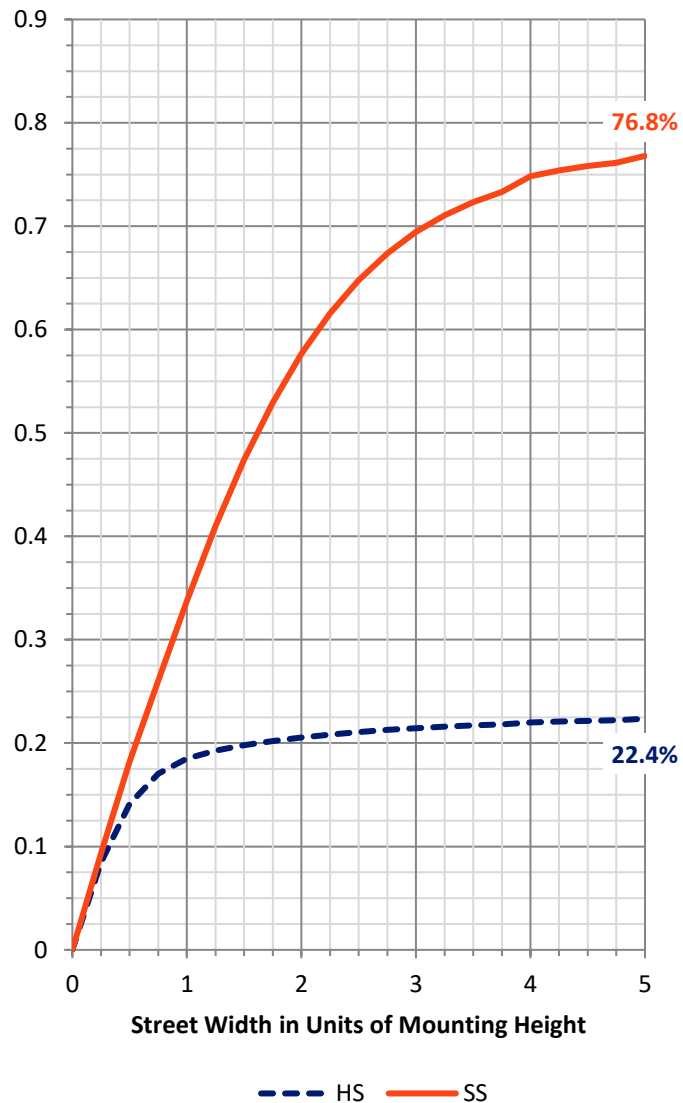
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1539.1	0.0	1539.1
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	5188.9	0.0	5188.9
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	6728.0	0.0	6728.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.2	1.1
10°-20°	223.9	3.3
20°-30°	378.2	5.6
30°-40°	518.4	7.7
40°-50°	763.5	11.3
50°-60°	1201.0	17.9
60°-70°	1728.7	25.7
70°-80°	1571.9	23.4
80°-90°	271.4	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°	6728.0	100.0
0°-180°	6728.0	100.0

**Coefficient of Utilization**

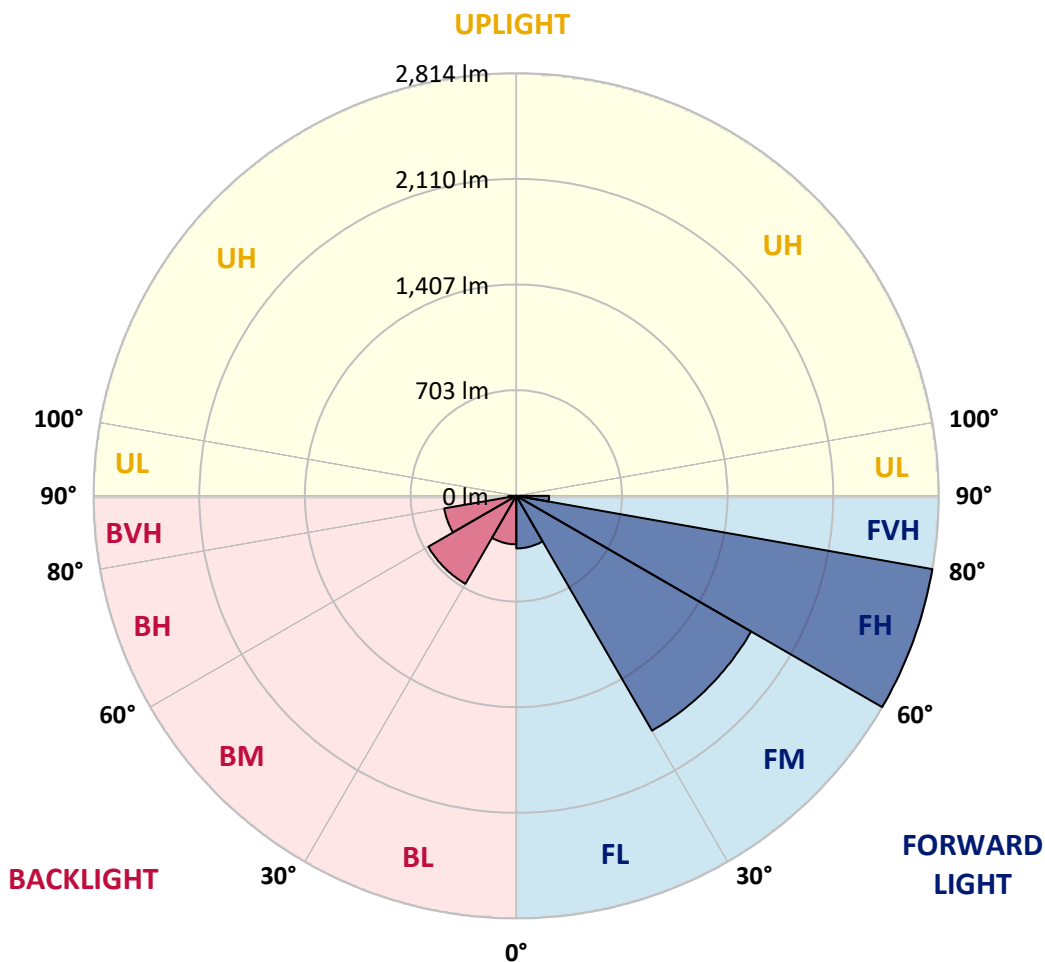


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	350.2	5.2			
FM (30°-60°)	1806.3	26.8			
FH (60°-80°)	2813.9	41.8			G2/5000
FVH (80°-90°)	218.4	3.2			G2/225
BL (0°-30°)	323.1	4.8	B1/500		
BM (30°-60°)	676.5	10.1	B1/1000		
BH (60°-80°)	486.6	7.2	B1/500		G1/500
BVH (80°-90°)	52.9	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°	733.3	733.3	733.3	733.3	733.3	733.3	733.3	733.3	733.3	733.3	733.3
2.5°	749.8	749.8	751.5	748.2	748.2	739.9	739.9	738.3	735.0	733.3	730.0
5°	777.8	777.8	772.9	764.6	759.7	749.8	744.9	741.6	735.0	726.7	718.5
7.5°	807.5	804.2	800.9	787.7	777.8	759.7	751.5	746.5	733.3	721.8	716.9
10°	838.8	833.9	825.6	809.1	794.3	772.9	763.0	756.4	741.6	731.7	720.2
12.5°	856.9	856.9	847.0	827.3	807.5	781.1	776.2	767.9	753.1	739.9	728.4
15°	875.1	876.7	866.8	843.7	820.7	800.9	792.7	787.7	771.2	751.5	736.6
17.5°	893.2	891.5	881.7	855.3	830.6	812.4	807.5	800.9	784.4	766.3	751.5
20°	906.4	903.1	899.8	866.8	842.1	830.6	824.0	819.0	802.6	782.8	763.0
22.5°	909.7	913.0	909.7	870.1	850.3	837.2	835.5	830.6	817.4	799.3	779.5
25°	911.3	913.0	917.9	880.0	861.9	852.0	848.7	845.4	835.5	820.7	794.3
27.5°	919.6	921.2	921.2	886.6	876.7	870.1	866.8	866.8	861.9	843.7	817.4
30°	921.2	922.9	926.1	903.1	899.8	894.8	896.5	894.8	886.6	866.8	837.2
32.5°	932.7	934.4	942.6	913.0	916.3	921.2	922.9	921.2	904.7	888.2	863.5
35°	970.6	969.0	975.6	937.7	934.4	936.0	941.0	939.3	932.7	917.9	901.4
37.5°	1092.6	1092.6	1074.5	995.4	970.6	967.3	970.6	978.9	980.5	967.3	954.2
40°	1306.8	1295.3	1285.4	1114.0	1034.9	1015.1	1025.0	1030.0	1043.2	1043.2	1043.2
42.5°	1527.6	1529.3	1526.0	1298.6	1150.3	1100.8	1102.5	1114.0	1142.0	1147.0	1161.8
45°	1723.8	1735.3	1760.0	1512.8	1320.0	1209.6	1198.1	1209.6	1249.1	1282.1	1320.0
47.5°	1877.0	1863.8	1918.2	1736.9	1514.5	1357.9	1328.2	1331.5	1385.9	1438.7	1498.0
50°	2008.8	2012.1	2036.9	1966.0	1760.0	1526.0	1486.4	1479.9	1557.3	1613.3	1713.9
52.5°	2157.2	2147.3	2183.5	2167.1	1999.0	1732.0	1669.4	1649.6	1733.6	1812.7	1921.5
55°	2228.0	2237.9	2312.1	2353.3	2224.7	1916.6	1847.3	1853.9	1942.9	2027.0	2178.6
57.5°	2353.3	2363.2	2448.9	2534.5	2425.8	2112.7	2051.7	2051.7	2152.2	2246.2	2480.2
60°	2524.7	2526.3	2613.6	2762.0	2602.1	2302.2	2262.6	2261.0	2369.7	2478.5	2836.1
62.5°	2600.5	2620.2	2750.4	2943.2	2832.8	2534.5	2488.4	2501.6	2598.8	2725.7	3233.3
65°	2498.3	2541.1	2813.0	3065.2	3038.8	2776.8	2758.7	2776.8	2836.1	2972.9	3653.5
67.5°	2160.5	2218.1	2697.7	3147.6	3203.6	3056.9	3030.6	3027.3	3065.2	3218.4	3918.8
70°	1985.8	2020.4	2392.8	3178.9	3335.4	3340.4	3340.4	3319.0	3314.0	3426.1	3943.5
72.5°	1634.8	1671.0	2018.7	3004.2	3460.7	3719.4	3757.3	3678.2	3556.3	3533.2	3529.9
75°	1165.1	1191.5	1491.4	2363.2	3300.8	4083.6	4159.4	4006.2	3666.7	3299.2	2574.1
76°	812.4	850.3	1165.1	2018.7	3099.8	4090.2	4208.9	4030.9	3592.5	3098.1	2120.9
77.5°	412.0	425.2	674.0	1356.3	2593.9	3902.3	4017.7	3818.3	3269.5	2503.2	1346.4
80°	156.6	161.5	240.6	494.4	1423.8	3030.6	3075.1	2806.5	2163.8	1069.5	484.5
82.5°	82.4	85.7	135.1	243.9	585.0	1666.1	1880.3	1565.6	848.7	321.3	141.7
85°	41.2	44.5	79.1	148.3	290.0	520.8	603.1	570.2	281.8	121.9	52.7
87.5°	16.5	19.8	39.6	65.9	117.0	102.2	113.7	146.7	90.6	57.7	18.1
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°	733.3	733.3	733.3	733.3	733.3	733.3	733.3	733.3	733.3	733.3	733.3
2.5°	730.0	728.4	730.0	728.4	730.0	730.0	731.7	728.4	728.4	731.7	726.7
5°	718.5	716.9	718.5	721.8	723.4	726.7	733.3	731.7	735.0	738.3	739.9
7.5°	713.6	711.9	716.9	718.5	723.4	730.0	739.9	746.5	749.8	756.4	753.1
10°	718.5	718.5	725.1	730.0	738.3	746.5	754.8	761.4	769.6	774.5	772.9
12.5°	726.7	725.1	736.6	743.2	754.8	763.0	769.6	772.9	779.5	786.1	784.4
15°	735.0	736.6	753.1	766.3	779.5	782.8	784.4	781.1	784.4	787.7	787.7
17.5°	751.5	753.1	771.2	786.1	797.6	794.3	786.1	777.8	777.8	779.5	781.1
20°	764.6	767.9	789.4	802.6	809.1	796.0	782.8	772.9	767.9	769.6	767.9
22.5°	779.5	786.1	807.5	814.1	804.2	787.7	771.2	758.1	758.1	759.7	759.7
25°	797.6	800.9	815.7	812.4	794.3	769.6	756.4	751.5	749.8	751.5	753.1
27.5°	814.1	815.7	824.0	800.9	766.3	739.9	735.0	736.6	738.3	739.9	741.6
30°	835.5	838.8	830.6	784.4	731.7	702.0	702.0	711.9	715.2	720.2	718.5
32.5°	861.9	865.2	840.5	763.0	687.2	657.5	659.2	674.0	683.9	687.2	688.8
35°	906.4	899.8	847.0	733.3	639.4	603.1	604.8	622.9	636.1	641.1	637.8
37.5°	960.8	959.1	856.9	695.4	580.1	547.1	548.8	557.0	570.2	571.8	573.5
40°	1051.4	1038.2	873.4	646.0	520.8	489.4	486.1	491.1	489.4	492.7	494.4
42.5°	1181.6	1147.0	894.8	590.0	468.0	435.1	431.8	423.5	413.6	403.7	398.8
45°	1334.8	1280.5	921.2	532.3	413.6	384.0	375.7	365.8	346.1	324.6	318.1
47.5°	1532.6	1428.8	950.9	474.6	362.5	339.5	332.9	318.1	295.0	270.3	265.3
50°	1735.3	1603.5	980.5	426.8	321.3	308.2	301.6	286.7	257.1	234.0	229.1
52.5°	1970.9	1776.5	1011.8	384.0	285.1	285.1	280.2	257.1	229.1	207.6	204.3
55°	2242.9	1954.5	1061.3	342.8	258.7	265.3	258.7	235.7	209.3	194.5	192.8
57.5°	2567.5	2180.2	1123.9	298.3	235.7	240.6	240.6	224.1	206.0	196.1	194.5
60°	2893.8	2409.3	1163.5	265.3	217.5	222.5	232.4	224.1	212.6	207.6	206.0
62.5°	3206.9	2643.3	1095.9	237.3	199.4	214.2	239.0	240.6	229.1	230.7	230.7
65°	3440.9	2821.3	886.6	212.6	187.9	219.2	258.7	260.4	240.6	235.7	234.0
67.5°	3521.7	2870.7	596.6	196.1	181.3	222.5	281.8	275.2	240.6	230.7	225.8
70°	3368.4	2689.5	387.3	181.3	171.4	219.2	299.9	283.4	239.0	224.1	217.5
72.5°	2824.6	2293.9	258.7	168.1	161.5	215.9	311.5	283.4	234.0	212.6	206.0
75°	1961.1	1567.2	192.8	151.6	146.7	210.9	314.8	278.5	222.5	199.4	194.5
76°	1573.8	1175.0	174.7	145.0	140.1	207.6	313.1	273.6	214.2	192.8	187.9
77.5°	993.7	675.7	146.7	133.5	130.2	201.0	306.5	262.0	202.7	181.3	176.3
80°	347.7	247.2	112.1	108.8	110.4	186.2	288.4	239.0	179.6	159.9	153.3
82.5°	138.4	113.7	84.0	84.0	87.3	159.9	260.4	210.9	156.6	131.8	121.9
85°	54.4	49.4	59.3	59.3	62.6	130.2	217.5	164.8	107.1	82.4	79.1
87.5°	16.5	23.1	26.4	28.0	29.7	65.9	123.6	72.5	47.8	34.6	28.0
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)