

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: P594684

Luminaire Tested: **ISS-PA1C-830-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594684  
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-830-U-T4W  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 80 CRI, 3000K, 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: 5401 lumens  
Efficiency: N/A  
Efficacy: 110.4 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

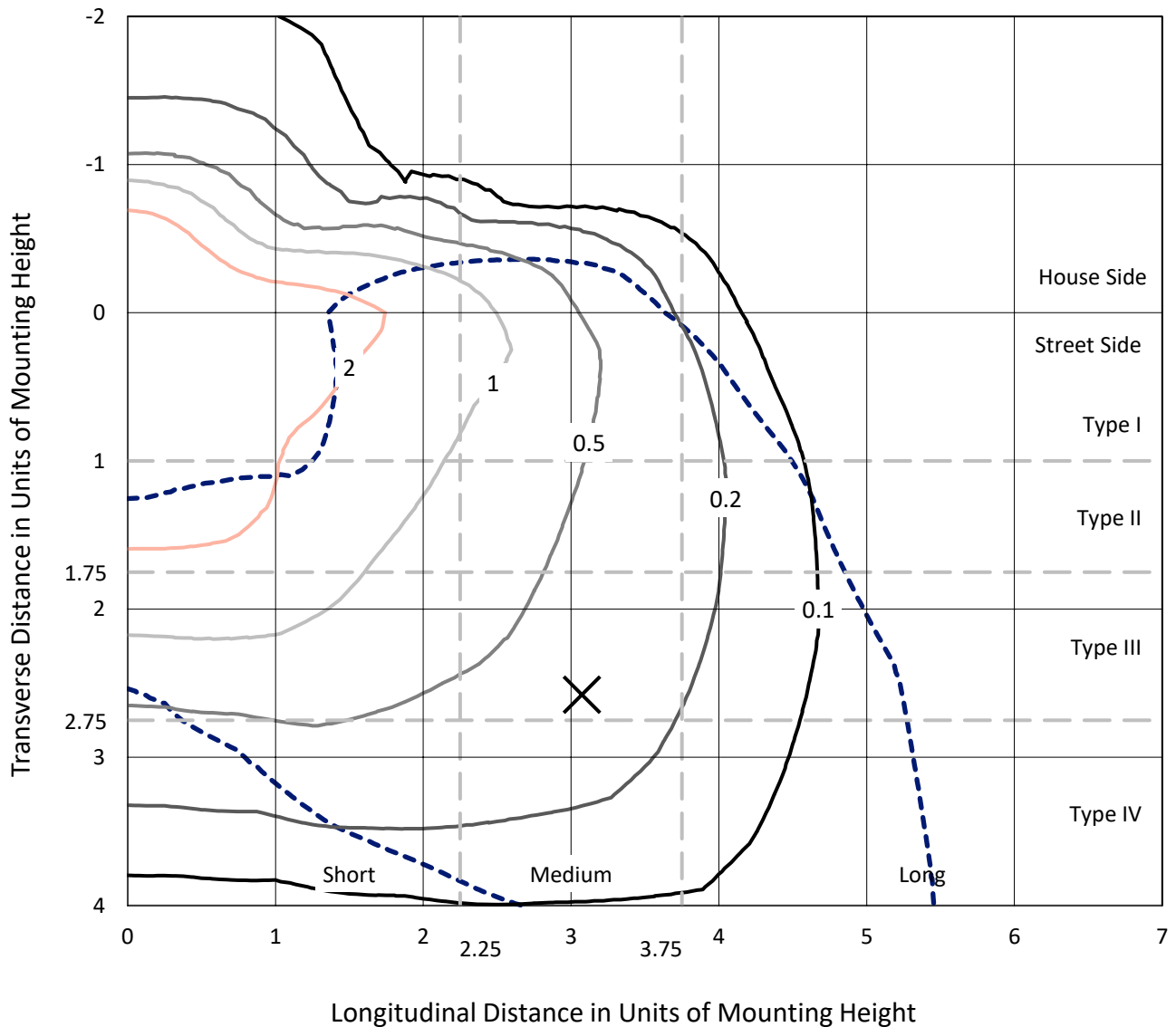
Input Watts (W): 48.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

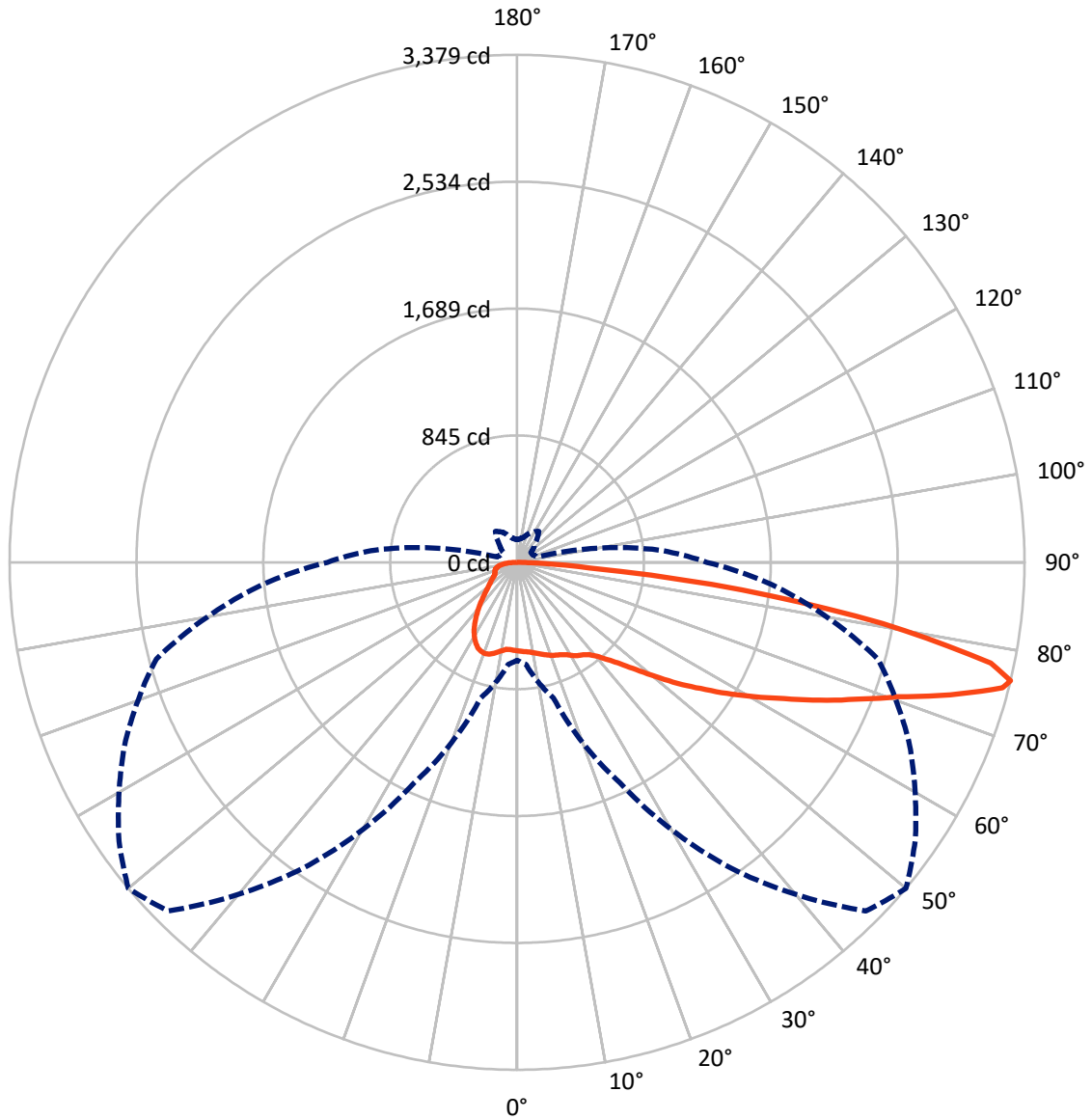
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.4 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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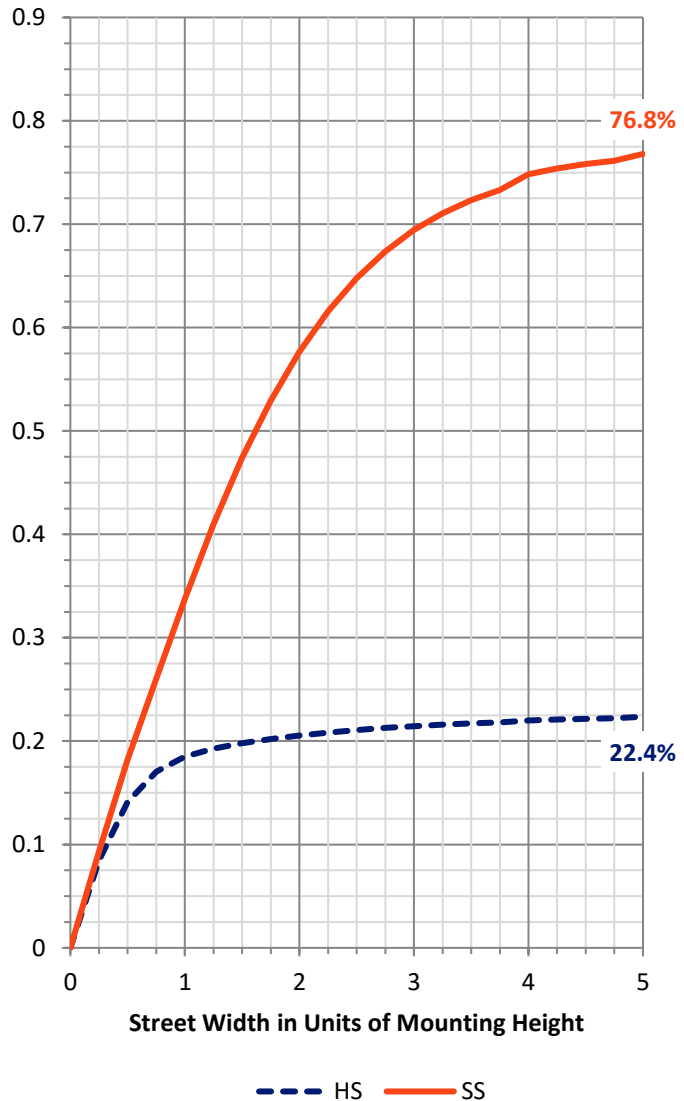
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1235.5	0.0	1235.5
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	4165.5	0.0	4165.5
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	5401.0	0.0	5401.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.2	1.1
10°-20°	179.7	3.3
20°-30°	303.6	5.6
30°-40°	416.1	7.7
40°-50°	612.9	11.3
50°-60°	964.1	17.9
60°-70°	1387.7	25.7
70°-80°	1261.8	23.4
80°-90°	217.8	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°	5401.0	100.0
0°-180°	5401.0	100.0

**Coefficient of Utilization**

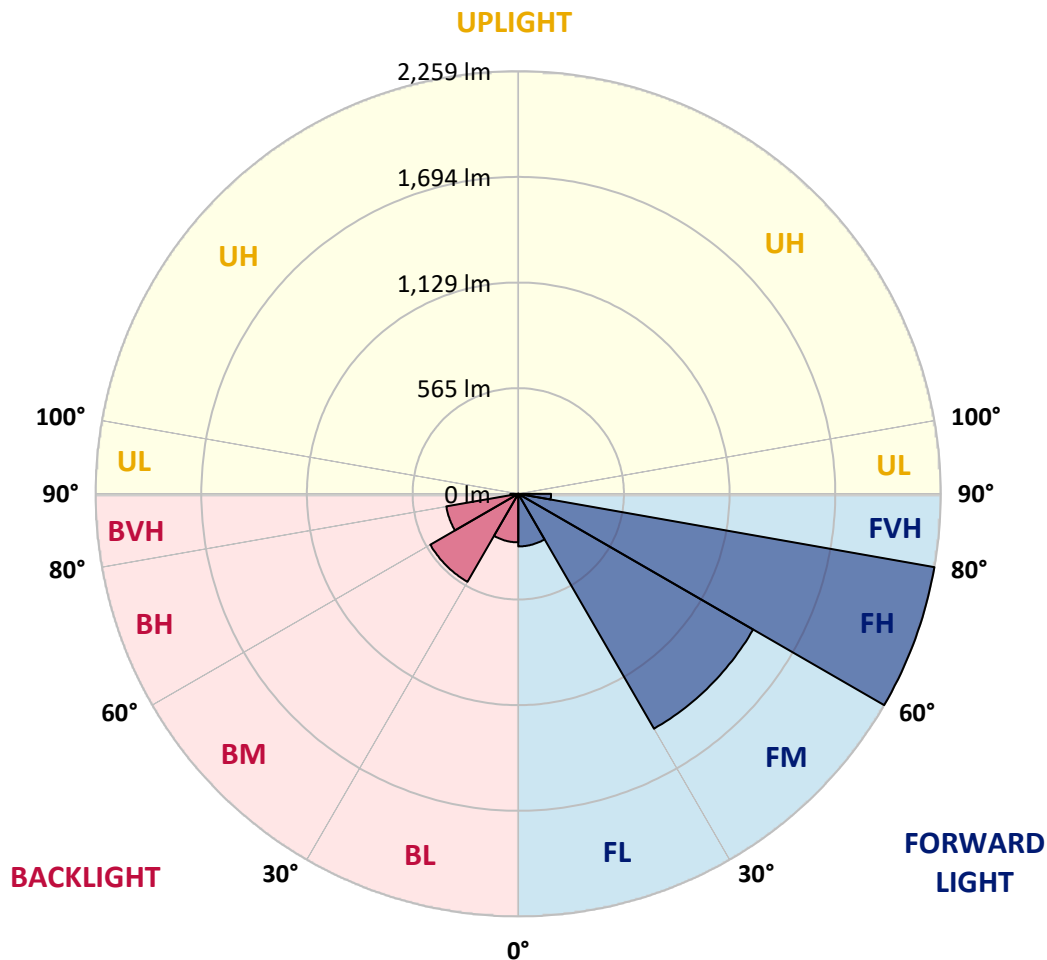


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	281.1	5.2			
FM (30°-60°)	1450.1	26.8			
FH (60°-80°)	2258.9	41.8			G2/5000
FVH (80°-90°)	175.3	3.2			G2/225
BL (0°-30°)	259.4	4.8	B1/500		
BM (30°-60°)	543.0	10.1	B1/1000		
BH (60°-80°)	390.6	7.2	B1/500		G1/500
BVH (80°-90°)	42.5	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°	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7
2.5°	601.9	601.9	603.2	600.6	600.6	594.0	594.0	592.7	590.0	588.7	586.1
5°	624.4	624.4	620.4	613.8	609.9	601.9	598.0	595.3	590.0	583.4	576.8
7.5°	648.2	645.6	642.9	632.4	624.4	609.9	603.2	599.3	588.7	579.4	575.5
10°	673.4	669.4	662.8	649.6	637.6	620.4	612.5	607.2	595.3	587.4	578.1
12.5°	687.9	687.9	680.0	664.1	648.2	627.1	623.1	616.5	604.6	594.0	584.7
15°	702.5	703.8	695.9	677.3	658.8	642.9	636.3	632.4	619.1	603.2	591.3
17.5°	717.0	715.7	707.8	686.6	666.7	652.2	648.2	642.9	629.7	615.2	603.2
20°	727.6	725.0	722.3	695.9	676.0	666.7	661.5	657.5	644.3	628.4	612.5
22.5°	730.2	732.9	730.2	698.5	682.6	672.0	670.7	666.7	656.2	641.6	625.7
25°	731.6	732.9	736.9	706.4	691.9	683.9	681.3	678.7	670.7	658.8	637.6
27.5°	738.2	739.5	739.5	711.7	703.8	698.5	695.9	695.9	691.9	677.3	656.2
30°	739.5	740.8	743.5	725.0	722.3	718.3	719.7	718.3	711.7	695.9	672.0
32.5°	748.8	750.1	756.7	732.9	735.5	739.5	740.8	739.5	726.3	713.1	693.2
35°	779.2	777.9	783.2	752.7	750.1	751.4	755.4	754.1	748.8	736.9	723.6
37.5°	877.1	877.1	862.5	799.0	779.2	776.6	779.2	785.8	787.1	776.6	766.0
40°	1049.1	1039.8	1031.9	894.3	830.8	814.9	822.9	826.8	837.4	837.4	837.4
42.5°	1226.3	1227.7	1225.0	1042.5	923.4	883.7	885.0	894.3	916.8	920.7	932.7
45°	1383.8	1393.0	1412.9	1214.4	1059.7	971.0	961.8	971.0	1002.8	1029.2	1059.7
47.5°	1506.8	1496.2	1539.9	1394.4	1215.8	1090.1	1066.3	1068.9	1112.6	1154.9	1202.5
50°	1612.6	1615.3	1635.1	1578.2	1412.9	1225.0	1193.3	1188.0	1250.2	1295.1	1375.8
52.5°	1731.7	1723.8	1752.9	1739.6	1604.7	1390.4	1340.1	1324.2	1391.7	1455.2	1542.5
55°	1788.6	1796.5	1856.0	1889.1	1785.9	1538.5	1483.0	1488.3	1559.7	1627.2	1748.9
57.5°	1889.1	1897.1	1965.9	2034.6	1947.3	1696.0	1647.0	1647.0	1727.7	1803.1	1991.0
60°	2026.7	2028.0	2098.1	2217.2	2088.9	1848.1	1816.4	1815.0	1902.4	1989.7	2276.7
62.5°	2087.6	2103.4	2207.9	2362.7	2274.1	2034.6	1997.6	2008.2	2086.2	2188.1	2595.6
65°	2005.5	2039.9	2258.2	2460.6	2439.5	2229.1	2214.6	2229.1	2276.7	2386.5	2932.9
67.5°	1734.3	1780.6	2165.6	2526.8	2571.7	2454.0	2432.8	2430.2	2460.6	2583.7	3145.9
70°	1594.1	1621.9	1920.9	2551.9	2677.6	2681.5	2681.5	2664.3	2660.4	2750.3	3165.7
72.5°	1312.3	1341.4	1620.6	2411.7	2778.1	2985.8	3016.2	2952.7	2854.8	2836.3	2833.7
75°	935.3	956.5	1197.2	1897.1	2649.8	3278.2	3339.0	3216.0	2943.5	2648.5	2066.4
76°	652.2	682.6	935.3	1620.6	2488.4	3283.5	3378.7	3235.8	2884.0	2487.1	1702.6
77.5°	330.7	341.3	541.1	1088.8	2082.3	3132.7	3225.3	3065.2	2624.7	2009.5	1080.8
80°	125.7	129.6	193.1	396.9	1143.0	2432.8	2468.6	2252.9	1737.0	858.6	388.9
82.5°	66.1	68.8	108.5	195.8	469.6	1337.5	1509.4	1256.8	681.3	258.0	113.8
85°	33.1	35.7	63.5	119.1	232.8	418.0	484.2	457.7	226.2	97.9	42.3
87.5°	13.2	15.9	31.7	52.9	93.9	82.0	91.3	117.7	72.8	46.3	14.6
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°	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7
2.5°	586.1	584.7	586.1	584.7	586.1	586.1	587.4	584.7	584.7	587.4	583.4
5°	576.8	575.5	576.8	579.4	580.8	583.4	588.7	587.4	590.0	592.7	594.0
7.5°	572.8	571.5	575.5	576.8	580.8	586.1	594.0	599.3	601.9	607.2	604.6
10°	576.8	576.8	582.1	586.1	592.7	599.3	605.9	611.2	617.8	621.8	620.4
12.5°	583.4	582.1	591.3	596.6	605.9	612.5	617.8	620.4	625.7	631.0	629.7
15°	590.0	591.3	604.6	615.2	625.7	628.4	629.7	627.1	629.7	632.4	632.4
17.5°	603.2	604.6	619.1	631.0	640.3	637.6	631.0	624.4	624.4	625.7	627.1
20°	613.8	616.5	633.7	644.3	649.6	639.0	628.4	620.4	616.5	617.8	616.5
22.5°	625.7	631.0	648.2	653.5	645.6	632.4	619.1	608.5	608.5	609.9	609.9
25°	640.3	642.9	654.8	652.2	637.6	617.8	607.2	603.2	601.9	603.2	604.6
27.5°	653.5	654.8	661.5	642.9	615.2	594.0	590.0	591.3	592.7	594.0	595.3
30°	670.7	673.4	666.7	629.7	587.4	563.6	563.6	571.5	574.1	578.1	576.8
32.5°	691.9	694.5	674.7	612.5	551.7	527.8	529.2	541.1	549.0	551.7	553.0
35°	727.6	722.3	680.0	588.7	513.3	484.2	485.5	500.1	510.6	514.6	512.0
37.5°	771.3	769.9	687.9	558.3	465.7	439.2	440.5	447.1	457.7	459.1	460.4
40°	844.0	833.4	701.1	518.6	418.0	392.9	390.3	394.2	392.9	395.6	396.9
42.5°	948.5	920.7	718.3	473.6	375.7	349.2	346.6	340.0	332.1	324.1	320.1
45°	1071.6	1027.9	739.5	427.3	332.1	308.2	301.6	293.7	277.8	260.6	255.3
47.5°	1230.3	1147.0	763.3	381.0	291.0	272.5	267.2	255.3	236.8	217.0	213.0
50°	1393.0	1287.2	787.1	342.6	258.0	247.4	242.1	230.2	206.4	187.9	183.9
52.5°	1582.2	1426.1	812.3	308.2	228.9	228.9	224.9	206.4	183.9	166.7	164.0
55°	1800.5	1569.0	852.0	275.2	207.7	213.0	207.7	189.2	168.0	156.1	154.8
57.5°	2061.1	1750.2	902.2	239.4	189.2	193.1	193.1	179.9	165.4	157.4	156.1
60°	2323.0	1934.1	934.0	213.0	174.6	178.6	186.5	179.9	170.7	166.7	165.4
62.5°	2574.4	2122.0	879.7	190.5	160.1	172.0	191.8	193.1	183.9	185.2	185.2
65°	2762.2	2264.8	711.7	170.7	150.8	175.9	207.7	209.0	193.1	189.2	187.9
67.5°	2827.1	2304.5	478.9	157.4	145.5	178.6	226.2	220.9	193.1	185.2	181.2
70°	2704.0	2159.0	310.9	145.5	137.6	175.9	240.8	227.5	191.8	179.9	174.6
72.5°	2267.5	1841.5	207.7	134.9	129.6	173.3	250.0	227.5	187.9	170.7	165.4
75°	1574.3	1258.1	154.8	121.7	117.7	169.3	252.7	223.6	178.6	160.1	156.1
76°	1263.4	943.2	140.2	116.4	112.4	166.7	251.4	219.6	172.0	154.8	150.8
77.5°	797.7	542.4	117.7	107.2	104.5	161.4	246.1	210.3	162.7	145.5	141.6
80°	279.1	198.4	90.0	87.3	88.6	149.5	231.5	191.8	144.2	128.3	123.0
82.5°	111.1	91.3	67.5	67.5	70.1	128.3	209.0	169.3	125.7	105.8	97.9
85°	43.7	39.7	47.6	47.6	50.3	104.5	174.6	132.3	86.0	66.1	63.5
87.5°	13.2	18.5	21.2	22.5	23.8	52.9	99.2	58.2	38.4	27.8	22.5
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)