

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: P594621

Luminaire Tested: **ISS-PA1C-727-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594621  
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-727-U-T4W  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 2700K, 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: 5684 lumens  
Efficiency: N/A  
Efficacy: 116.2 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

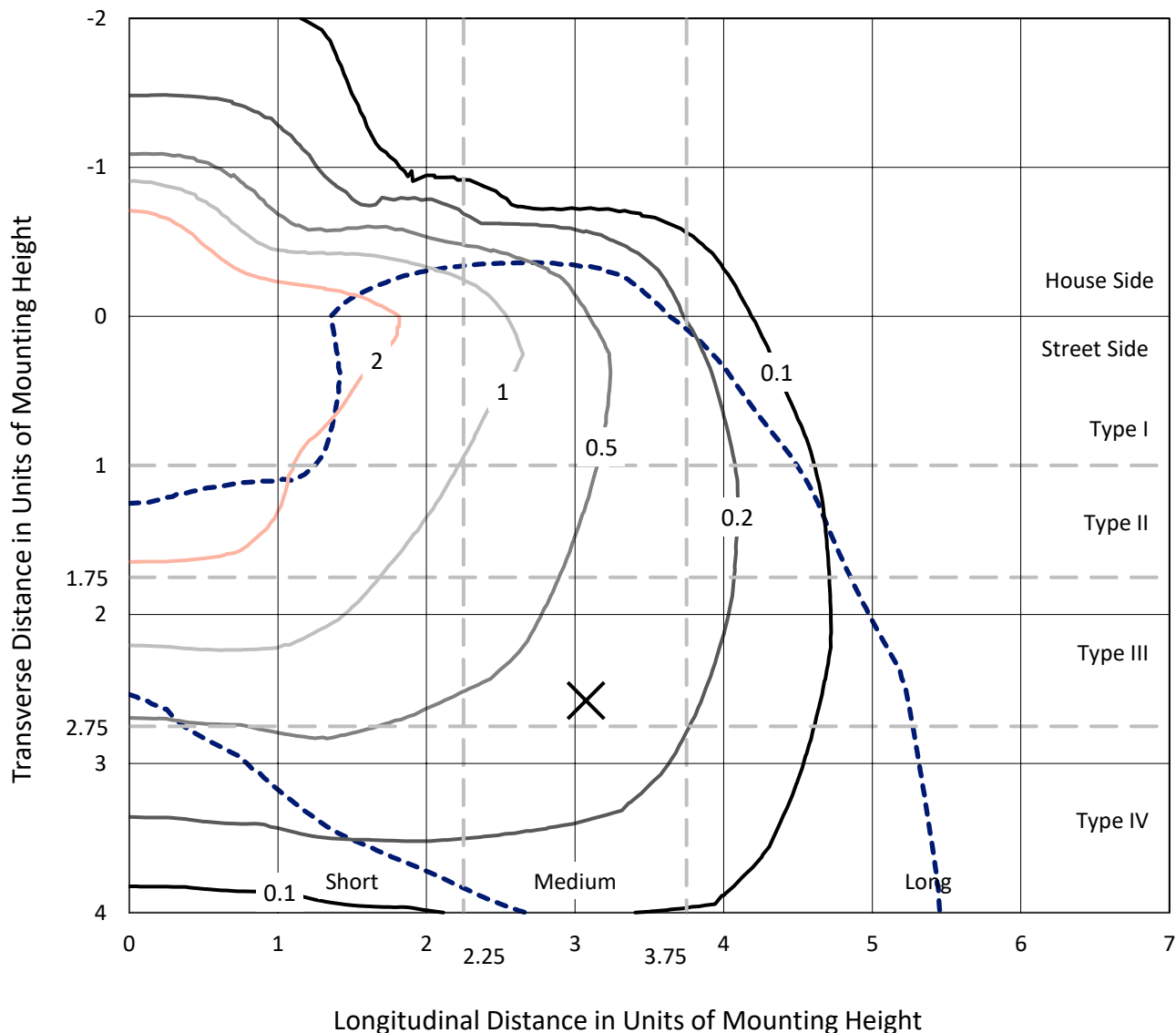
Input Watts (W): 48.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

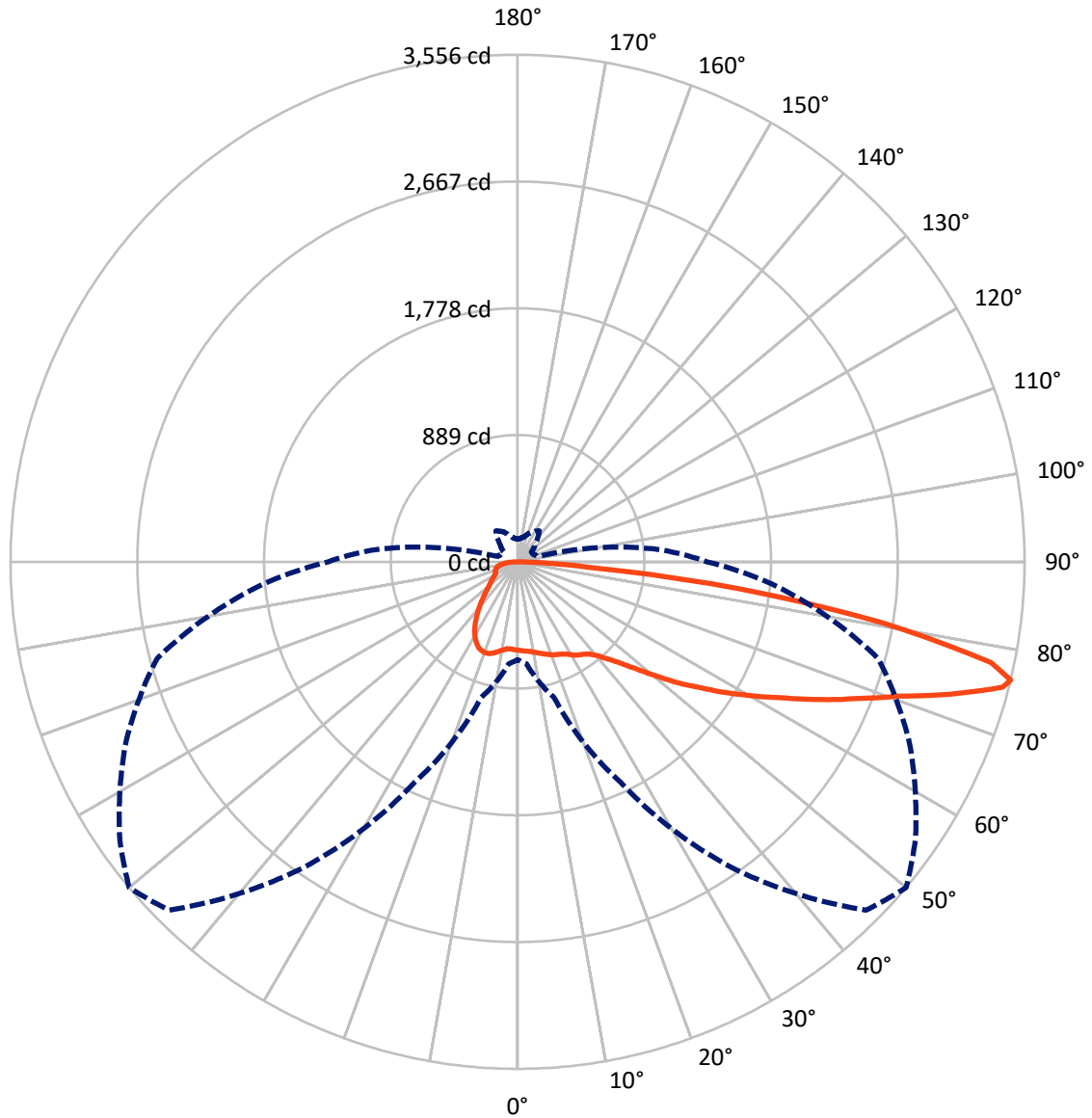
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.7 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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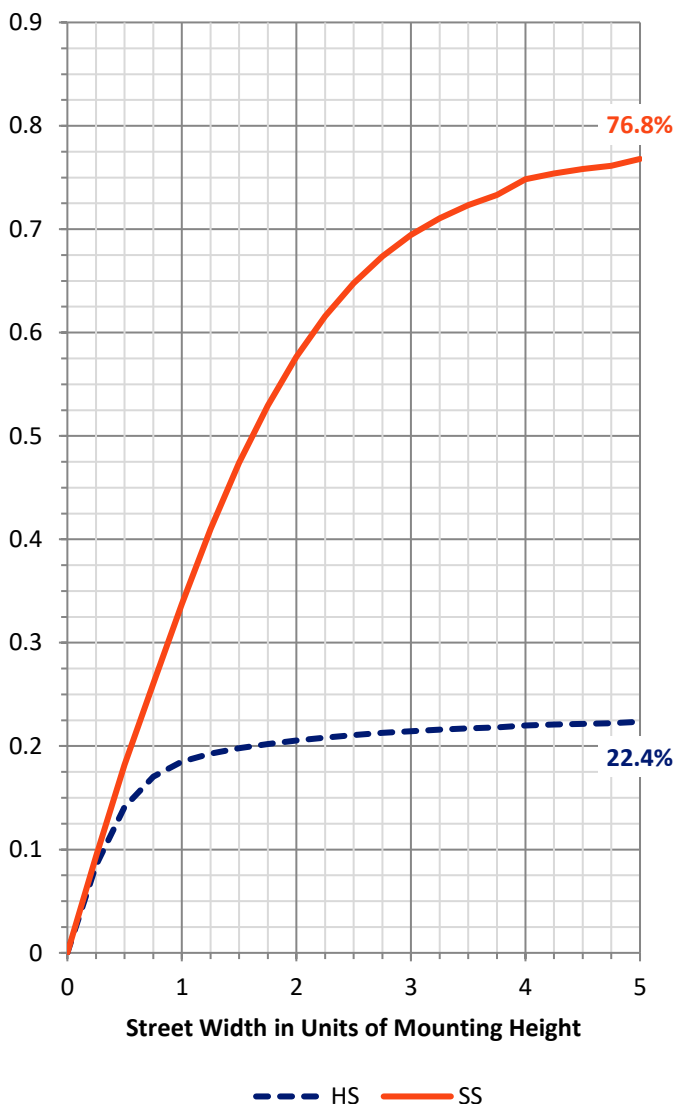
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1300.3	0.0	1300.3
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	4383.7	0.0	4383.7
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	5684.0	0.0	5684.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.2	1.1
10°-20°	189.1	3.3
20°-30°	319.5	5.6
30°-40°	437.9	7.7
40°-50°	645.0	11.3
50°-60°	1014.6	17.9
60°-70°	1460.4	25.7
70°-80°	1328.0	23.4
80°-90°	229.3	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°	5684.0	100.0
0°-180°	5684.0	100.0

**Coefficient of Utilization**

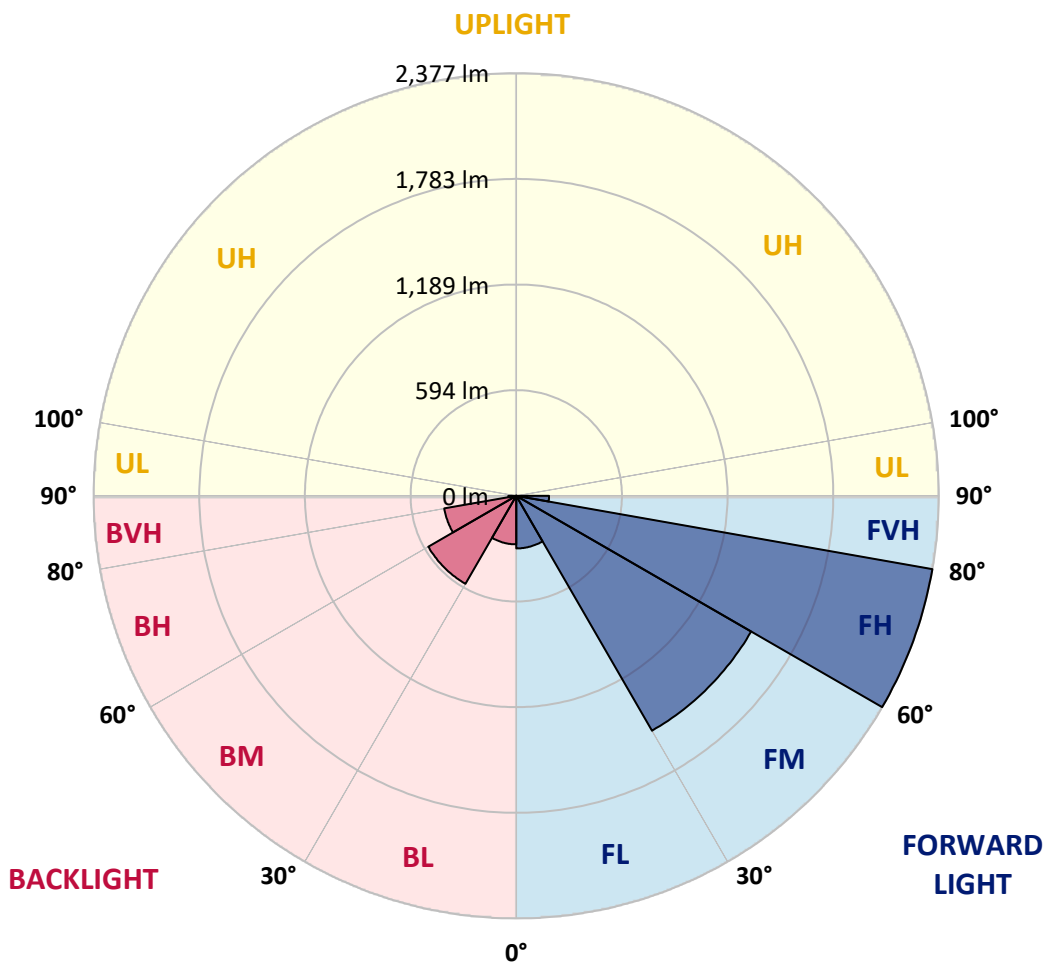


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	295.8	5.2			
FM (30°-60°)	1526.1	26.8			
FH (60°-80°)	2377.3	41.8			G2/5000
FVH (80°-90°)	184.5	3.2			G2/225
BL (0°-30°)	273.0	4.8	B1/500		
BM (30°-60°)	571.5	10.1	B1/1000		
BH (60°-80°)	411.1	7.2	B1/500		G1/500
BVH (80°-90°)	44.7	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°	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5
2.5°	633.5	633.5	634.9	632.1	632.1	625.1	625.1	623.7	620.9	619.5	616.8
5°	657.1	657.1	653.0	646.0	641.8	633.5	629.3	626.5	620.9	614.0	607.0
7.5°	682.2	679.4	676.6	665.5	657.1	641.8	634.9	630.7	619.5	609.8	605.6
10°	708.6	704.5	697.5	683.6	671.1	653.0	644.6	639.0	626.5	618.2	608.4
12.5°	724.0	724.0	715.6	698.9	682.2	659.9	655.7	648.8	636.2	625.1	615.4
15°	739.3	740.7	732.3	712.8	693.3	676.6	669.7	665.5	651.6	634.9	622.3
17.5°	754.6	753.2	744.8	722.6	701.7	686.4	682.2	676.6	662.7	647.4	634.9
20°	765.7	762.9	760.2	732.3	711.4	701.7	696.1	691.9	678.0	661.3	644.6
22.5°	768.5	771.3	768.5	735.1	718.4	707.3	705.9	701.7	690.5	675.2	658.5
25°	769.9	771.3	775.5	743.5	728.1	719.8	717.0	714.2	705.9	693.3	671.1
27.5°	776.9	778.3	778.3	749.0	740.7	735.1	732.3	732.3	728.1	712.8	690.5
30°	778.3	779.6	782.4	762.9	760.2	756.0	757.4	756.0	749.0	732.3	707.3
32.5°	788.0	789.4	796.4	771.3	774.1	778.3	779.6	778.3	764.3	750.4	729.5
35°	820.0	818.6	824.2	792.2	789.4	790.8	795.0	793.6	788.0	775.5	761.6
37.5°	923.0	923.0	907.7	840.9	820.0	817.2	820.0	827.0	828.4	817.2	806.1
40°	1104.0	1094.3	1085.9	941.1	874.3	857.6	866.0	870.1	881.3	881.3	881.3
42.5°	1290.6	1292.0	1289.2	1097.1	971.8	930.0	931.4	941.1	964.8	969.0	981.5
45°	1456.3	1466.0	1486.9	1278.1	1115.2	1021.9	1012.2	1021.9	1055.3	1083.2	1115.2
47.5°	1585.8	1574.6	1620.6	1467.4	1279.5	1147.2	1122.1	1124.9	1170.9	1215.4	1265.5
50°	1697.1	1699.9	1720.8	1660.9	1486.9	1289.2	1255.8	1250.2	1315.7	1363.0	1447.9
52.5°	1822.4	1814.1	1844.7	1830.8	1688.8	1463.2	1410.3	1393.6	1464.6	1531.5	1623.3
55°	1882.3	1890.7	1953.3	1988.1	1879.5	1619.2	1560.7	1566.3	1641.4	1712.4	1840.5
57.5°	1988.1	1996.5	2068.9	2141.3	2049.4	1784.8	1733.3	1733.3	1818.3	1897.6	2095.3
60°	2132.9	2134.3	2208.1	2333.4	2198.3	1944.9	1911.5	1910.1	2002.0	2093.9	2396.0
62.5°	2196.9	2213.6	2323.6	2486.5	2393.2	2141.3	2102.3	2113.4	2195.5	2302.8	2731.6
65°	2110.6	2146.8	2376.5	2589.6	2567.3	2345.9	2330.6	2345.9	2396.0	2511.6	3086.6
67.5°	1825.2	1873.9	2279.1	2659.2	2706.5	2582.6	2560.3	2557.5	2589.6	2719.0	3310.7
70°	1677.6	1706.9	2021.5	2685.6	2817.9	2822.1	2822.1	2804.0	2799.8	2894.4	3331.6
72.5°	1381.1	1411.7	1705.5	2538.0	2923.7	3142.3	3174.3	3107.5	3004.4	2984.9	2982.2
75°	984.3	1006.6	1260.0	1996.5	2788.6	3449.9	3514.0	3384.5	3097.7	2787.2	2174.7
76°	686.4	718.4	984.3	1705.5	2618.8	3455.5	3555.8	3405.4	3035.1	2617.4	1791.8
77.5°	348.1	359.2	569.4	1145.8	2191.4	3296.8	3394.3	3225.8	2762.2	2114.8	1137.5
80°	132.3	136.4	203.3	417.7	1202.9	2560.3	2597.9	2371.0	1828.0	903.6	409.3
82.5°	69.6	72.4	114.2	206.1	494.2	1407.5	1588.5	1322.6	717.0	271.5	119.7
85°	34.8	37.6	66.8	125.3	245.0	439.9	509.6	481.7	238.1	103.0	44.6
87.5°	13.9	16.7	33.4	55.7	98.8	86.3	96.1	123.9	76.6	48.7	15.3
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°	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5
2.5°	616.8	615.4	616.8	615.4	616.8	616.8	618.2	615.4	615.4	618.2	614.0
5°	607.0	605.6	607.0	609.8	611.2	614.0	619.5	618.2	620.9	623.7	625.1
7.5°	602.8	601.4	605.6	607.0	611.2	616.8	625.1	630.7	633.5	639.0	636.2
10°	607.0	607.0	612.6	616.8	623.7	630.7	637.6	643.2	650.2	654.3	653.0
12.5°	614.0	612.6	622.3	627.9	637.6	644.6	650.2	653.0	658.5	664.1	662.7
15°	620.9	622.3	636.2	647.4	658.5	661.3	662.7	659.9	662.7	665.5	665.5
17.5°	634.9	636.2	651.6	664.1	673.8	671.1	664.1	657.1	657.1	658.5	659.9
20°	646.0	648.8	666.9	678.0	683.6	672.4	661.3	653.0	648.8	650.2	648.8
22.5°	658.5	664.1	682.2	687.8	679.4	665.5	651.6	640.4	640.4	641.8	641.8
25°	673.8	676.6	689.2	686.4	671.1	650.2	639.0	634.9	633.5	634.9	636.2
27.5°	687.8	689.2	696.1	676.6	647.4	625.1	620.9	622.3	623.7	625.1	626.5
30°	705.9	708.6	701.7	662.7	618.2	593.1	593.1	601.4	604.2	608.4	607.0
32.5°	728.1	730.9	710.0	644.6	580.6	555.5	556.9	569.4	577.8	580.6	582.0
35°	765.7	760.2	715.6	619.5	540.2	509.6	510.9	526.3	537.4	541.6	538.8
37.5°	811.7	810.3	724.0	587.5	490.1	462.2	463.6	470.6	481.7	483.1	484.5
40°	888.2	877.1	737.9	545.8	439.9	413.5	410.7	414.9	413.5	416.3	417.7
42.5°	998.2	969.0	756.0	498.4	395.4	367.5	364.8	357.8	349.5	341.1	336.9
45°	1127.7	1081.8	778.3	449.7	349.5	324.4	317.4	309.1	292.4	274.3	268.7
47.5°	1294.8	1207.1	803.3	401.0	306.3	286.8	281.2	268.7	249.2	228.3	224.1
50°	1466.0	1354.6	828.4	360.6	271.5	260.3	254.8	242.2	217.2	197.7	193.5
52.5°	1665.1	1500.8	854.8	324.4	240.9	240.9	236.7	217.2	193.5	175.4	172.6
55°	1894.8	1651.2	896.6	289.6	218.6	224.1	218.6	199.1	176.8	164.3	162.9
57.5°	2169.1	1841.9	949.5	252.0	199.1	203.3	203.3	189.3	174.0	165.7	164.3
60°	2444.8	2035.4	982.9	224.1	183.8	188.0	196.3	189.3	179.6	175.4	174.0
62.5°	2709.3	2233.1	925.8	200.5	168.5	181.0	201.9	203.3	193.5	194.9	194.9
65°	2907.0	2383.5	749.0	179.6	158.7	185.2	218.6	220.0	203.3	199.1	197.7
67.5°	2975.2	2425.3	504.0	165.7	153.1	188.0	238.1	232.5	203.3	194.9	190.7
70°	2845.7	2272.1	327.2	153.1	144.8	185.2	253.4	239.5	201.9	189.3	183.8
72.5°	2386.3	1938.0	218.6	142.0	136.4	182.4	263.1	239.5	197.7	179.6	174.0
75°	1656.8	1324.0	162.9	128.1	123.9	178.2	265.9	235.3	188.0	168.5	164.3
76°	1329.6	992.7	147.6	122.5	118.3	175.4	264.5	231.1	181.0	162.9	158.7
77.5°	839.5	570.8	123.9	112.8	110.0	169.9	259.0	221.4	171.2	153.1	149.0
80°	293.8	208.8	94.7	91.9	93.3	157.3	243.6	201.9	151.8	135.0	129.5
82.5°	116.9	96.1	71.0	71.0	73.8	135.0	220.0	178.2	132.3	111.4	103.0
85°	45.9	41.8	50.1	50.1	52.9	110.0	183.8	139.2	90.5	69.6	66.8
87.5°	13.9	19.5	22.3	23.7	25.1	55.7	104.4	61.3	40.4	29.2	23.7
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)