

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: P271549

Luminaire Tested: **ISS-AF-1200-LED-E1-T4FT-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271549  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29760)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISS-AF-1200-LED-E1-T4FT-7027  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV FORWARD THROW  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5655.3 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

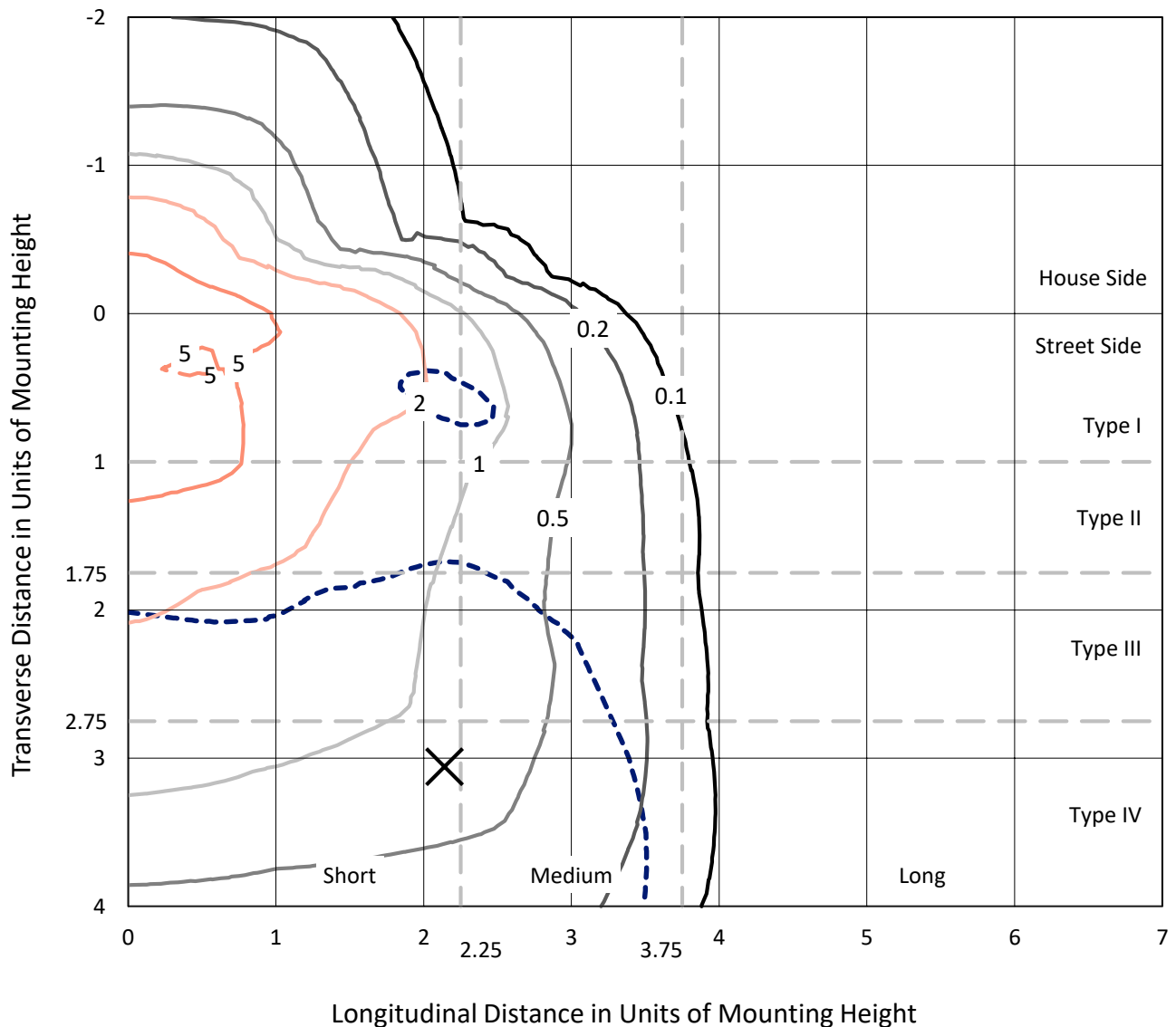
Input Watts (W): 66  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

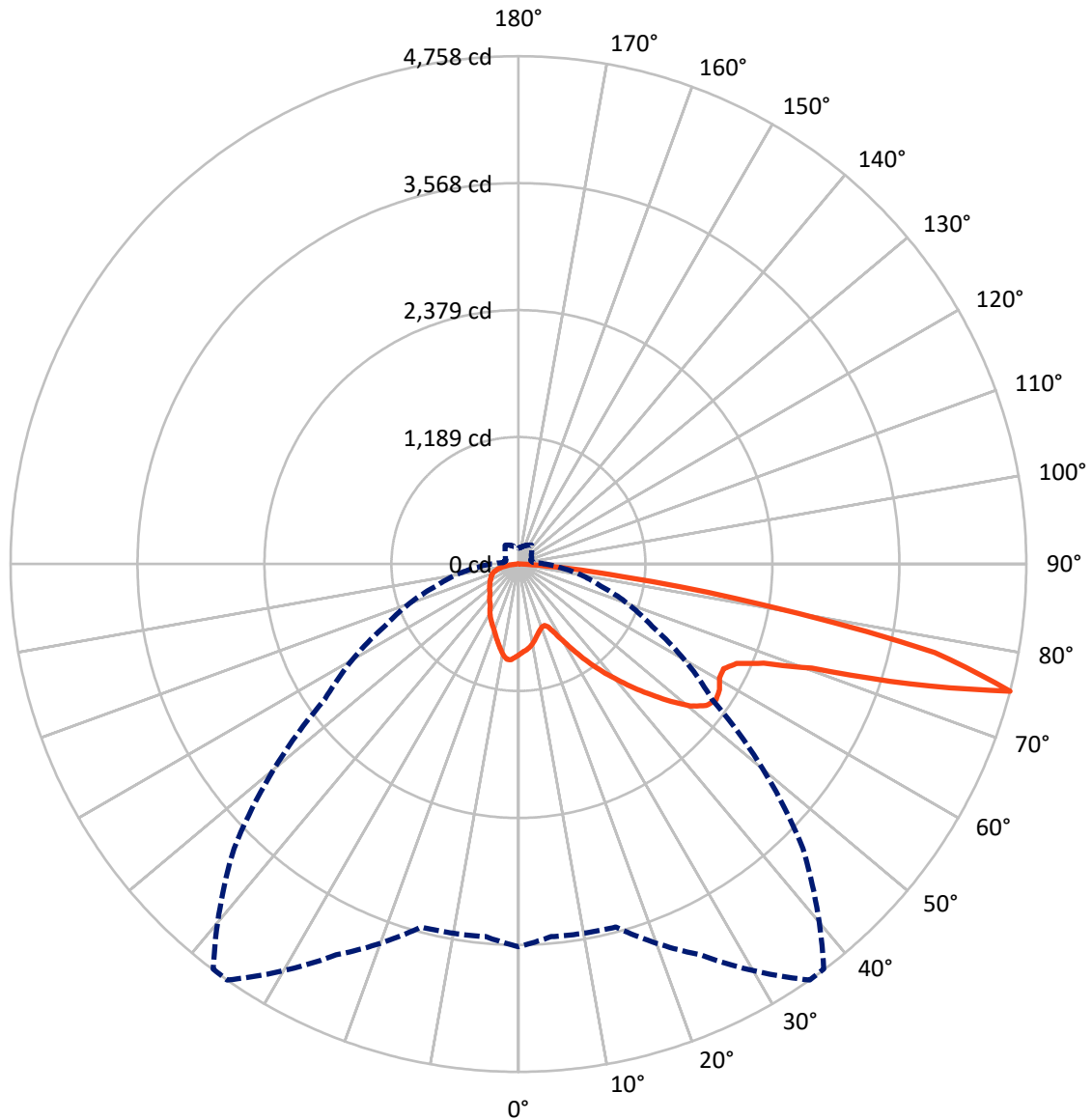
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.7 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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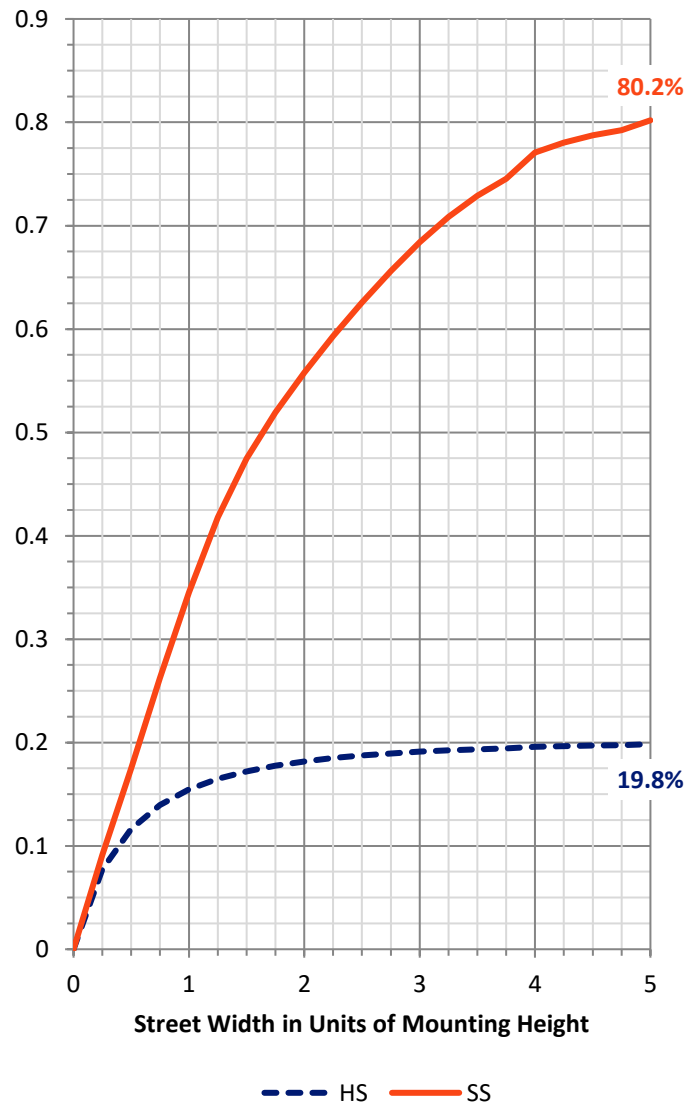
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1135.1	0.0	1135.1
	% Fixture	20.1	0.0	20.1
<b>Street Side</b>	Lumens	4520.2	0.0	4520.2
	% Fixture	79.9	0.0	79.9
<b>Total</b>	Lumens	5655.3	0.0	5655.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.7	1.4
10°-20°	210.5	3.7
20°-30°	333.0	5.9
30°-40°	537.4	9.5
40°-50°	795.1	14.1
50°-60°	1022.3	18.1
60°-70°	1265.7	22.4
70°-80°	1275.5	22.6
80°-90°	136.2	2.4
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°	5655.3	100.0
0°-180°	5655.3	100.0

**Coefficient of Utilization**



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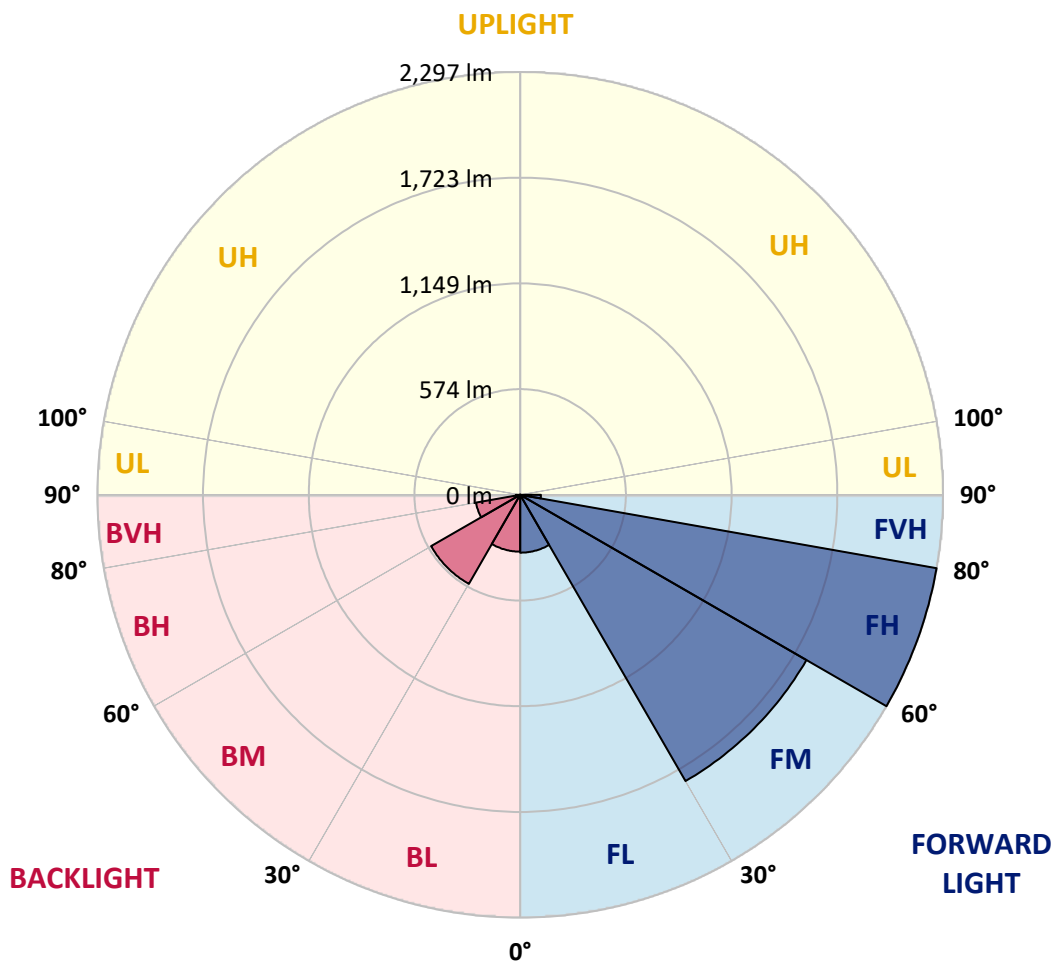
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	314.5	5.6			
FM	(30°-60°)	1795.8	31.8			
FH	(60°-80°)	2297.4	40.6			G2/5000
FVH	(80°-90°)	112.6	2.0			G2/225
BL	(0°-30°)	308.7	5.5	B1/500		
BM	(30°-60°)	558.9	9.9	B1/1000		
BH	(60°-80°)	243.8	4.3	B1/500		G1/500
BVH	(80°-90°)	23.6	0.4			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	849.5	849.5	849.5	849.5	849.5	849.5	849.5	849.5	849.5	849.5	849.5
2.5°	825.0	823.2	821.2	821.2	825.0	825.0	826.9	828.8	830.8	836.3	843.9
5°	802.4	800.5	798.6	800.5	806.2	806.2	811.8	815.6	819.3	828.8	838.3
7.5°	772.1	772.1	770.3	777.8	783.5	781.6	789.1	792.9	802.4	811.8	826.9
10°	732.5	732.5	732.5	742.0	751.4	751.4	757.0	766.5	774.1	787.3	806.2
12.5°	698.5	696.6	696.6	704.2	715.5	717.4	726.9	740.0	749.5	766.5	787.3
15°	687.2	683.4	674.0	674.0	679.7	679.7	694.7	713.6	728.7	745.8	770.3
17.5°	689.1	683.4	658.9	651.3	651.3	653.2	668.2	689.1	708.0	728.7	760.9
20°	706.1	696.6	651.3	634.3	630.6	632.5	645.7	666.5	689.1	717.4	753.3
22.5°	779.7	764.5	679.7	641.9	625.0	625.0	632.5	655.1	683.4	721.2	766.5
25°	949.6	925.1	774.1	706.1	655.1	649.5	636.2	658.9	692.9	738.1	804.3
27.5°	1123.3	1098.8	891.1	817.5	738.1	721.2	672.1	677.8	715.5	776.0	860.8
30°	1268.7	1247.9	1038.4	953.4	847.7	828.8	753.3	717.4	755.1	828.8	945.8
32.5°	1280.1	1270.6	1196.9	1110.0	981.7	955.3	855.3	798.6	817.5	900.6	1038.4
35°	1385.7	1378.2	1338.6	1255.5	1127.1	1096.9	991.2	904.3	898.7	979.8	1144.1
37.5°	1489.6	1480.1	1453.6	1397.0	1278.1	1253.6	1170.5	1030.9	991.2	1072.4	1247.9
40°	1587.8	1574.5	1540.5	1508.4	1421.6	1421.6	1332.8	1151.6	1079.9	1153.5	1334.8
42.5°	1769.0	1727.4	1636.8	1612.3	1587.8	1587.8	1457.5	1234.7	1151.6	1242.3	1417.9
45°	1942.7	1903.0	1780.4	1731.2	1744.5	1737.0	1557.5	1281.9	1215.9	1325.3	1497.1
47.5°	2080.6	2044.6	1920.0	1886.0	1923.8	1893.5	1640.7	1319.7	1297.1	1414.0	1563.2
50°	2203.3	2118.2	1997.4	2042.7	2090.0	2039.0	1714.2	1376.3	1378.2	1508.4	1659.5
52.5°	2035.2	2025.8	2052.2	2157.9	2203.3	2146.6	1780.4	1448.1	1465.0	1629.3	1769.0
55°	1833.2	1831.3	1986.2	2191.9	2246.6	2193.8	1823.8	1534.8	1555.7	1778.5	1906.8
57.5°	1793.6	1774.6	1880.4	2120.1	2220.3	2182.4	1846.4	1616.1	1642.6	1967.2	2042.7
60°	1921.9	1886.0	1869.0	2042.7	2163.6	2144.7	1874.8	1712.3	1748.2	2182.4	2169.2
62.5°	2201.4	2152.2	2031.3	2048.5	2157.9	2142.7	1942.7	1825.6	1867.1	2397.7	2241.0
65°	2571.4	2535.5	2342.9	2205.1	2246.6	2225.9	2065.5	1969.2	1991.7	2552.4	2159.7
67.5°	2977.3	2928.1	2718.6	2529.9	2477.0	2437.3	2259.9	2139.0	2057.8	2529.9	1942.7
70°	3436.1	3383.2	3201.9	3007.4	2916.9	2873.4	2599.7	2286.3	2033.3	2280.5	1533.0
72.5°	4000.5	3928.7	3828.8	3849.5	3834.3	3713.5	3141.6	2335.3	1853.9	1697.3	915.6
75°	3585.1	3504.0	3521.0	4040.1	4757.5	4751.9	3768.3	2214.5	1382.0	800.5	396.4
77.5°	1285.7	1421.6	2097.5	3026.4	3989.2	3983.5	2916.9	1385.7	592.8	341.7	239.8
80°	322.9	328.5	521.1	1242.3	2329.8	2310.8	1653.8	522.9	247.3	207.7	164.2
82.5°	103.8	111.4	190.7	428.5	996.8	974.2	513.5	171.8	154.8	134.0	100.0
85°	34.0	34.0	67.9	147.2	328.5	315.2	103.8	62.3	85.0	69.9	45.4
87.5°	0.0	0.0	1.9	3.8	7.5	3.8	0.0	3.8	11.3	13.3	9.4
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°	849.5	849.5	849.5	849.5	849.5	849.5	849.5	849.5	849.5	849.5	849.5
2.5°	849.5	847.7	855.3	860.8	862.8	868.4	874.1	877.9	875.9	874.1	874.1
5°	847.7	849.5	862.8	874.1	883.6	892.9	900.6	904.3	902.4	902.4	902.4
7.5°	836.3	843.9	859.0	877.9	891.1	896.8	898.7	892.9	889.2	883.6	883.6
10°	817.5	828.8	853.3	874.1	879.8	872.3	860.8	849.5	834.4	825.0	825.0
12.5°	802.4	815.6	845.8	862.8	855.3	836.3	811.8	792.9	777.8	766.5	764.5
15°	789.1	806.2	838.3	842.0	825.0	792.9	760.9	740.0	723.0	715.5	715.5
17.5°	779.7	802.4	830.8	819.3	785.4	743.9	713.6	696.6	683.4	675.9	674.0
20°	781.6	809.9	823.2	791.0	742.0	698.5	670.2	660.7	651.3	647.6	647.6
22.5°	802.4	828.8	821.2	766.5	702.4	653.2	634.3	632.5	628.6	625.0	623.1
25°	847.7	866.5	826.9	742.0	660.7	611.7	602.2	608.0	606.1	602.2	602.2
27.5°	910.1	913.8	836.3	717.4	615.5	572.0	572.0	581.6	577.7	572.0	575.8
30°	985.5	964.7	840.2	677.8	562.6	534.3	539.9	545.6	541.9	534.3	534.3
32.5°	1066.6	1017.6	840.2	626.7	511.7	500.3	502.2	504.1	496.5	487.2	487.2
35°	1146.0	1068.5	830.8	566.4	472.0	466.3	464.4	472.0	466.3	453.1	453.1
37.5°	1221.4	1108.1	806.2	504.1	441.8	439.9	445.6	441.8	434.2	415.4	411.5
40°	1274.3	1134.6	757.0	453.1	417.3	428.5	424.8	404.0	392.6	379.4	379.4
42.5°	1321.6	1147.9	696.6	413.5	400.3	415.4	400.3	373.9	358.7	356.9	358.7
45°	1365.0	1159.3	638.2	381.4	379.4	400.3	381.4	353.0	336.1	336.1	337.9
47.5°	1406.5	1170.5	579.6	351.1	354.9	377.6	366.3	337.9	321.0	309.6	309.6
50°	1472.6	1196.9	494.7	319.1	326.6	358.7	354.9	322.9	304.0	287.0	283.1
52.5°	1551.9	1242.3	402.1	285.1	305.9	341.7	341.7	309.6	288.9	266.2	262.5
55°	1657.6	1291.3	322.9	260.6	285.1	322.9	328.5	304.0	273.7	253.1	249.2
57.5°	1763.4	1308.3	260.6	236.0	258.6	304.0	319.1	292.7	256.7	241.6	239.8
60°	1836.9	1253.6	219.0	215.2	239.8	281.3	305.9	279.5	245.5	230.3	230.3
62.5°	1825.6	1087.5	196.3	202.0	224.7	264.3	294.6	268.1	237.9	228.3	226.6
65°	1665.2	821.2	177.4	190.7	211.4	247.3	283.1	262.5	234.1	224.7	220.9
67.5°	1402.7	545.6	164.2	179.3	198.3	234.1	273.7	254.8	222.8	217.1	213.3
70°	1015.7	319.1	151.1	168.1	185.1	219.0	260.6	239.8	209.6	205.8	196.3
72.5°	549.4	200.1	135.9	152.9	168.1	200.1	239.8	220.9	192.6	177.4	171.8
75°	251.1	145.3	120.8	135.9	147.2	175.6	215.2	194.4	171.8	152.9	149.2
77.5°	168.1	109.5	102.0	117.0	122.7	147.2	190.7	154.8	134.0	120.8	117.0
80°	115.2	81.2	83.0	96.3	94.4	117.0	143.5	124.7	105.7	109.5	100.0
82.5°	73.6	56.6	64.2	67.9	66.0	88.8	111.4	94.4	79.3	66.0	56.6
85°	32.1	30.3	37.8	39.6	39.6	49.0	58.5	47.3	35.8	26.4	26.4
87.5°	1.9	3.8	3.8	5.7	3.8	1.9	0.0	0.0	0.0	0.0	0.0
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)