

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: P594754

Luminaire Tested: **ISS-PA1D-827-U-T3**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594754  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1D-827-U-T3  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 80 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6266 lumens  
Efficiency: N/A  
Efficacy: 99.5 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

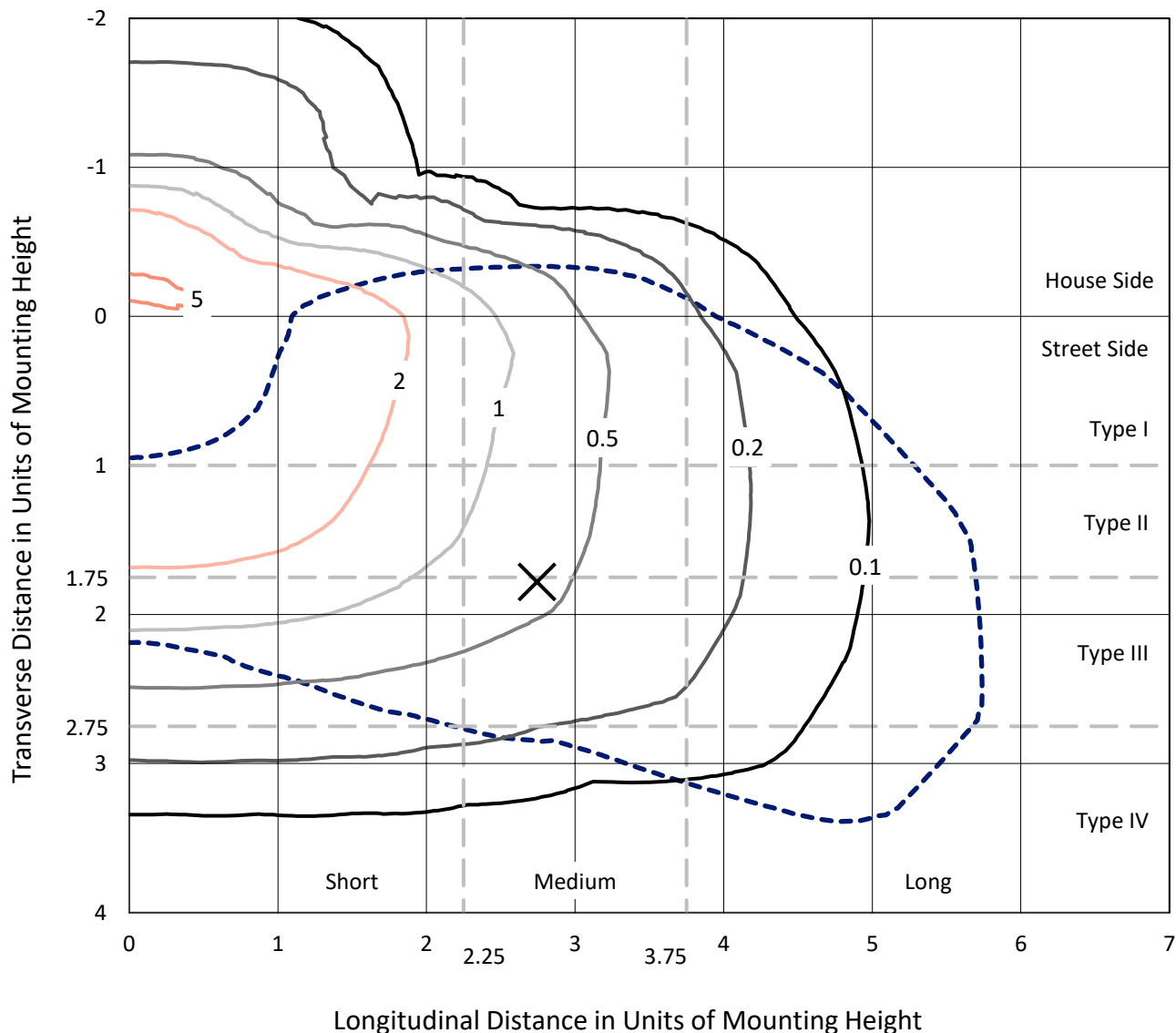
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

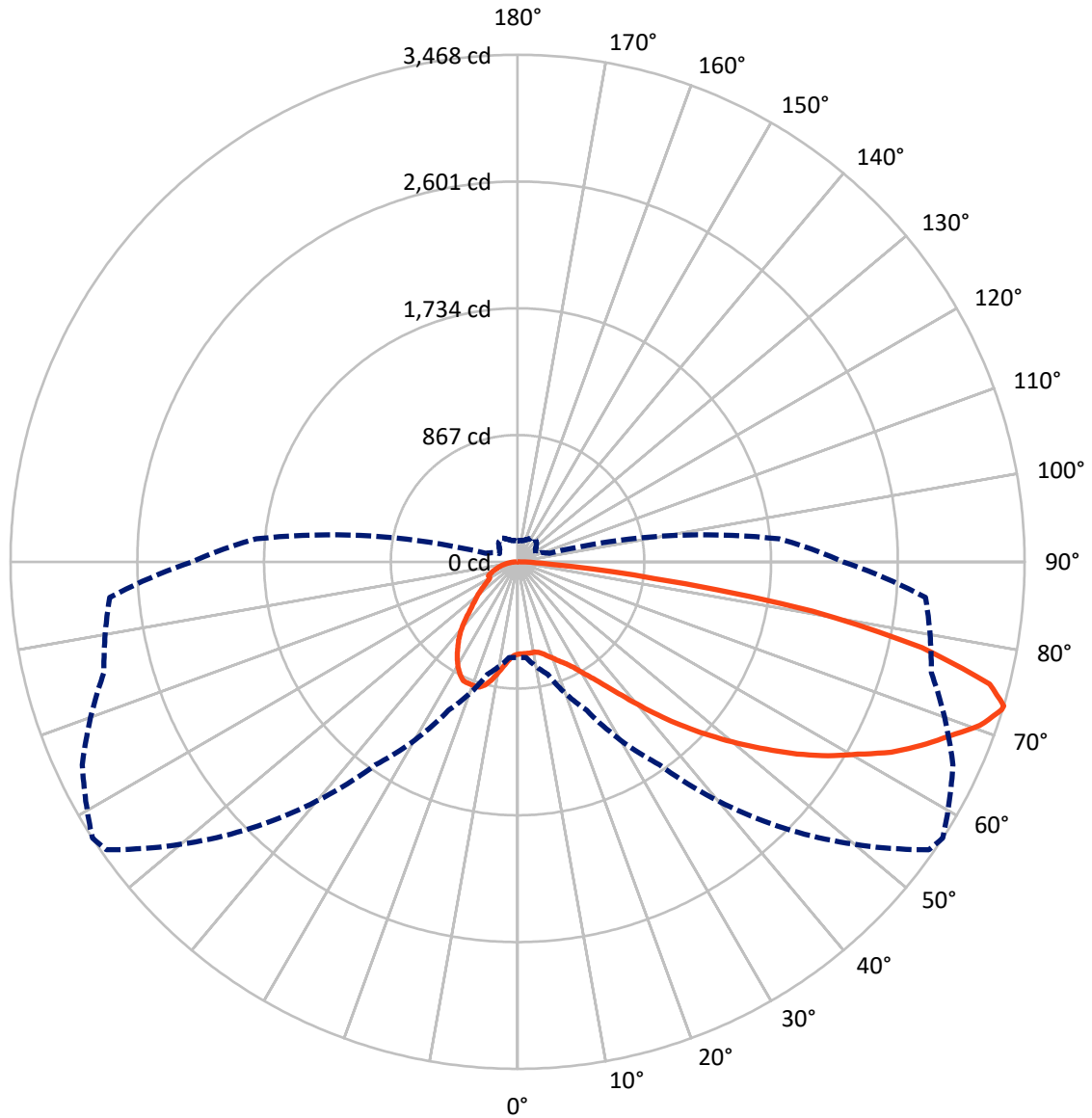
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.4 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical



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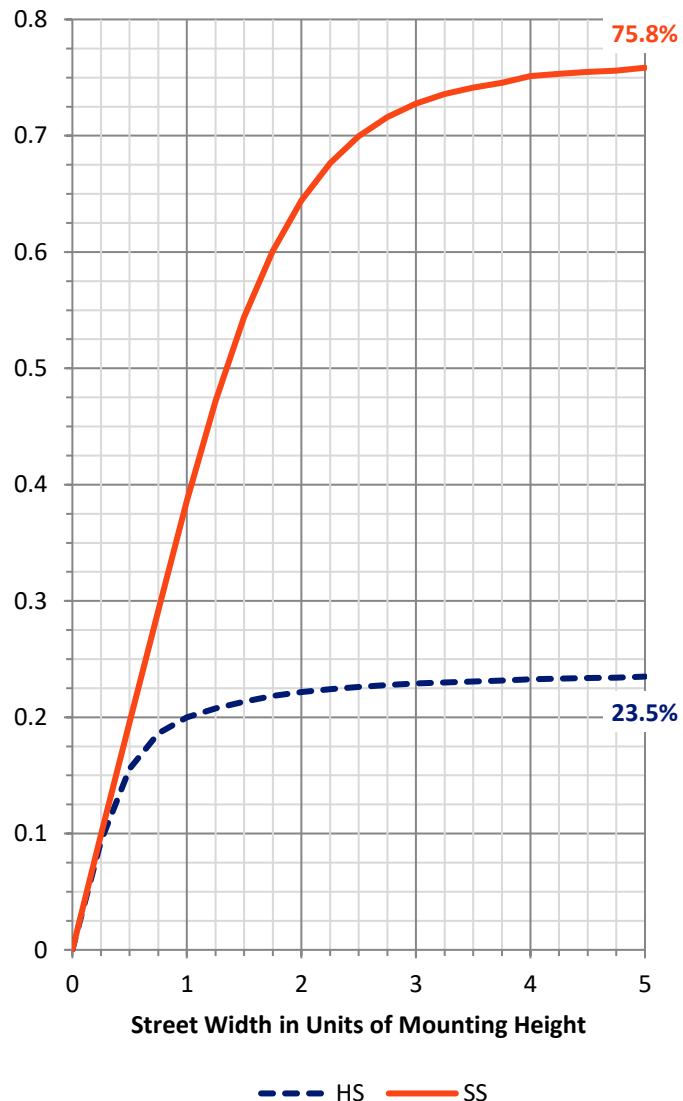
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1494.9	0.0	1494.9
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	4771.1	0.0	4771.1
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	6266.0	0.0	6266.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.0	1.0
10°-20°	207.3	3.3
20°-30°	382.7	6.1
30°-40°	590.9	9.4
40°-50°	889.5	14.2
50°-60°	1301.8	20.8
60°-70°	1537.3	24.5
70°-80°	1100.6	17.6
80°-90°	192.9	3.1
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°	6266.0	100.0
0°-180°	6266.0	100.0

**Coefficient of Utilization**

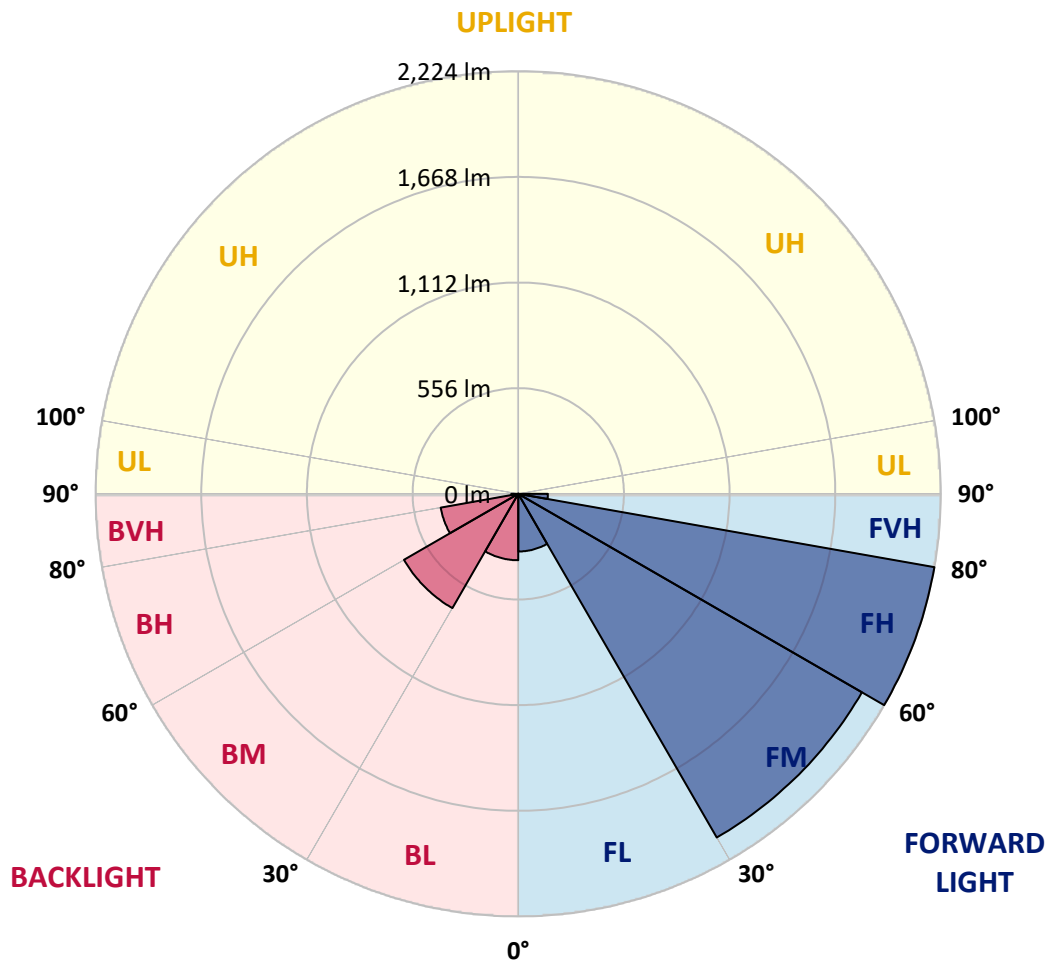


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	303.6	4.8			
FM (30°-60°)	2088.0	33.3			
FH (60°-80°)	2223.5	35.5			G2/5000
FVH (80°-90°)	156.0	2.5			G2/225
BL (0°-30°)	349.4	5.6	B1/500		
BM (30°-60°)	694.2	11.1	B1/1000		
BH (60°-80°)	414.5	6.6	B1/500		G1/500
BVH (80°-90°)	36.8	0.6			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°	55°	57°	65°	75°	85°
0°	631.3	631.3	631.3	631.3	631.3	631.3	631.3	631.3	631.3	631.3	631.3
2.5°	623.6	626.7	625.2	626.7	631.3	628.2	628.2	629.8	631.3	629.8	632.8
5°	597.5	599.0	602.1	608.3	619.0	622.1	629.8	629.8	632.8	635.9	640.5
7.5°	554.5	557.6	563.7	569.9	588.3	606.7	626.7	629.8	640.5	648.2	651.3
10°	546.8	549.9	551.4	560.6	579.1	597.5	622.1	628.2	648.2	660.5	674.3
12.5°	539.1	542.2	546.8	559.1	582.1	602.1	628.2	634.4	659.0	683.5	700.4
15°	545.3	546.8	551.4	563.7	586.8	614.4	648.2	652.8	680.5	711.2	737.3
17.5°	560.6	562.2	560.6	571.4	592.9	625.2	671.2	678.9	712.7	743.4	769.5
20°	596.0	597.5	591.4	591.4	606.7	639.0	695.8	706.6	748.0	781.8	807.9
22.5°	672.8	669.7	654.3	634.4	634.4	660.5	723.5	738.8	791.0	818.7	841.7
25°	781.8	781.8	757.3	720.4	695.8	692.7	755.7	772.6	834.1	867.8	881.7
27.5°	913.9	915.5	875.5	826.4	778.8	755.7	801.8	818.7	887.8	923.1	927.8
30°	1030.7	1032.2	992.3	946.2	887.8	837.1	863.2	881.7	961.5	989.2	973.8
32.5°	1147.4	1148.9	1121.3	1058.3	996.9	933.9	941.6	952.3	1033.7	1059.9	1035.3
35°	1248.8	1253.4	1225.7	1178.1	1113.6	1056.8	1043.0	1044.5	1118.2	1135.1	1102.9
37.5°	1351.7	1351.7	1334.8	1290.3	1235.0	1172.0	1153.5	1158.2	1224.2	1241.1	1195.0
40°	1482.3	1488.4	1479.2	1423.9	1360.9	1308.7	1290.3	1296.4	1368.6	1359.4	1310.2
42.5°	1640.5	1654.3	1638.9	1579.0	1511.4	1453.1	1453.1	1453.1	1514.5	1516.0	1442.3
45°	1843.2	1843.2	1827.9	1775.6	1686.5	1628.2	1608.2	1612.8	1666.6	1672.7	1586.7
47.5°	2012.2	2027.5	2010.6	1972.2	1901.6	1846.3	1783.3	1775.6	1820.2	1820.2	1746.4
50°	2148.9	2176.5	2162.7	2179.6	2128.9	2101.3	1972.2	1950.7	1966.1	1981.5	1900.1
52.5°	2262.6	2284.1	2279.4	2328.6	2353.2	2368.5	2164.2	2130.5	2142.7	2141.2	2067.5
55°	2270.2	2277.9	2347.0	2457.6	2554.4	2626.6	2357.8	2320.9	2308.6	2302.5	2245.7
57.5°	2225.7	2230.3	2368.5	2499.1	2709.5	2792.5	2540.6	2503.7	2486.8	2465.3	2442.3
60°	2118.2	2141.2	2322.5	2523.7	2801.7	2921.5	2711.1	2672.7	2660.4	2614.3	2666.5
62.5°	1981.5	1992.2	2173.5	2473.0	2814.0	2976.8	2890.8	2867.7	2829.3	2763.3	2866.2
65°	1787.9	1786.4	1946.1	2324.0	2751.0	3004.4	3042.8	3030.6	2982.9	2869.3	3044.4
67.5°	1468.4	1503.8	1660.4	2059.8	2598.9	3032.1	3198.0	3182.6	3107.4	2964.5	3128.9
70°	1119.8	1141.3	1319.4	1663.5	2296.3	2956.8	3350.0	3354.7	3218.0	2984.5	3092.0
72.5°	714.2	751.1	892.4	1211.9	1838.6	2677.3	3440.7	3462.2	3279.4	2956.8	2863.1
73°	654.3	657.4	795.7	1121.3	1695.8	2577.4	3434.5	3468.3	3285.5	2929.2	2800.2
75°	390.1	407.0	490.0	745.0	1210.4	2070.5	3268.6	3336.2	3253.3	2806.3	2454.6
77.5°	182.8	195.1	241.2	393.2	659.0	1245.7	2747.9	2827.8	2883.1	2456.1	1870.9
80°	96.8	98.3	118.3	198.1	353.3	513.0	1915.4	2047.5	2125.8	1849.4	1258.0
82.5°	81.4	81.4	92.2	127.5	225.8	199.7	789.5	940.0	1152.0	910.9	494.6
85°	66.0	67.6	92.2	95.2	161.3	102.9	188.9	236.5	447.0	402.4	55.3
87.5°	21.5	24.6	52.2	67.6	86.0	39.9	47.6	52.2	52.2	76.8	18.4
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°	631.3	631.3	631.3	631.3	631.3	631.3	631.3	631.3	631.3	631.3	631.3
2.5°	634.4	634.4	635.9	637.4	640.5	640.5	643.6	645.1	648.2	649.7	645.1
5°	640.5	643.6	646.7	655.9	666.6	675.8	685.1	692.7	700.4	705.0	703.5
7.5°	657.4	662.0	674.3	691.2	712.7	726.5	740.4	754.2	760.3	763.4	763.4
10°	680.5	689.7	712.7	740.4	764.9	786.4	797.2	806.4	809.5	812.6	809.5
12.5°	712.7	725.0	760.3	795.7	823.3	834.1	832.5	820.2	803.3	800.3	797.2
15°	754.2	769.5	809.5	851.0	872.5	858.6	823.3	811.0	807.9	817.2	814.1
17.5°	789.5	807.9	857.1	900.1	895.5	847.9	837.1	843.3	840.2	841.7	841.7
20°	823.3	849.4	901.6	930.8	890.9	860.2	851.0	843.3	834.1	837.1	834.1
22.5°	866.3	884.7	944.6	946.2	884.7	860.2	840.2	824.8	821.8	823.3	824.8
25°	900.1	929.3	981.5	935.4	884.7	835.6	807.9	804.9	806.4	815.6	812.6
27.5°	946.2	975.4	1010.7	929.3	847.9	795.7	784.9	783.4	772.6	775.7	775.7
30°	989.2	1024.5	1026.1	929.3	801.8	761.9	746.5	718.9	695.8	700.4	698.9
32.5°	1047.6	1078.3	1029.1	892.4	749.6	717.3	675.8	632.8	622.1	628.2	629.8
35°	1115.1	1139.7	1032.2	831.0	697.4	654.3	579.1	554.5	553.0	557.6	562.2
37.5°	1204.2	1218.1	1055.2	760.3	646.7	556.0	497.7	491.5	477.7	468.5	470.0
40°	1313.3	1296.4	1099.8	697.4	586.8	466.9	442.4	425.5	399.4	373.3	377.9
42.5°	1434.6	1387.0	1113.6	646.7	505.3	411.7	388.6	362.5	330.2	302.6	301.1
45°	1565.2	1488.4	1101.3	606.7	423.9	370.2	345.6	314.9	276.5	253.4	253.4
47.5°	1720.3	1585.2	1062.9	574.5	367.1	333.3	302.6	271.9	245.8	224.3	224.3
50°	1890.8	1697.3	1035.3	517.6	327.2	298.0	267.3	242.7	222.7	205.8	205.8
52.5°	2070.5	1803.3	1012.2	434.7	291.8	265.7	244.2	224.3	207.4	185.9	182.8
55°	2253.3	1904.7	1023.0	354.8	259.6	242.7	228.9	208.9	202.8	198.1	195.1
57.5°	2443.8	2015.3	1049.1	290.3	231.9	230.4	224.3	238.1	251.9	242.7	238.1
60°	2592.8	2101.3	1052.2	244.2	215.0	242.7	273.4	278.0	241.2	219.7	218.1
62.5°	2711.1	2182.7	980.0	212.0	219.7	285.7	291.8	245.8	208.9	199.7	199.7
65°	2772.5	2211.9	788.0	193.5	228.9	273.4	264.2	221.2	195.1	193.5	193.5
67.5°	2741.8	2188.8	551.4	173.6	202.8	236.5	236.5	202.8	179.7	187.4	184.3
70°	2594.3	2075.2	364.0	156.7	178.2	213.5	219.7	188.9	167.4	172.0	167.4
72.5°	2287.1	1872.4	239.6	138.2	153.6	188.9	204.3	173.6	153.6	152.1	147.5
73°	2227.2	1795.6	225.8	135.2	149.0	182.8	199.7	170.5	150.5	145.9	142.8
75°	1889.3	1497.6	170.5	121.3	132.1	164.4	185.9	159.7	138.2	132.1	129.0
77.5°	1376.3	1038.3	127.5	102.9	110.6	142.8	164.4	145.9	122.9	115.2	113.7
80°	858.6	565.3	95.2	82.9	87.6	119.8	144.4	130.6	106.0	96.8	95.2
82.5°	336.4	184.3	66.0	61.4	64.5	90.6	121.3	113.7	89.1	81.4	76.8
85°	55.3	63.0	43.0	41.5	41.5	64.5	92.2	87.6	59.9	52.2	46.1
87.5°	15.4	29.2	16.9	15.4	15.4	27.6	50.7	39.9	24.6	20.0	18.4
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)