

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: P594752

Luminaire Tested: **ISS-PA1D-827-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)
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-T2U
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6338 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

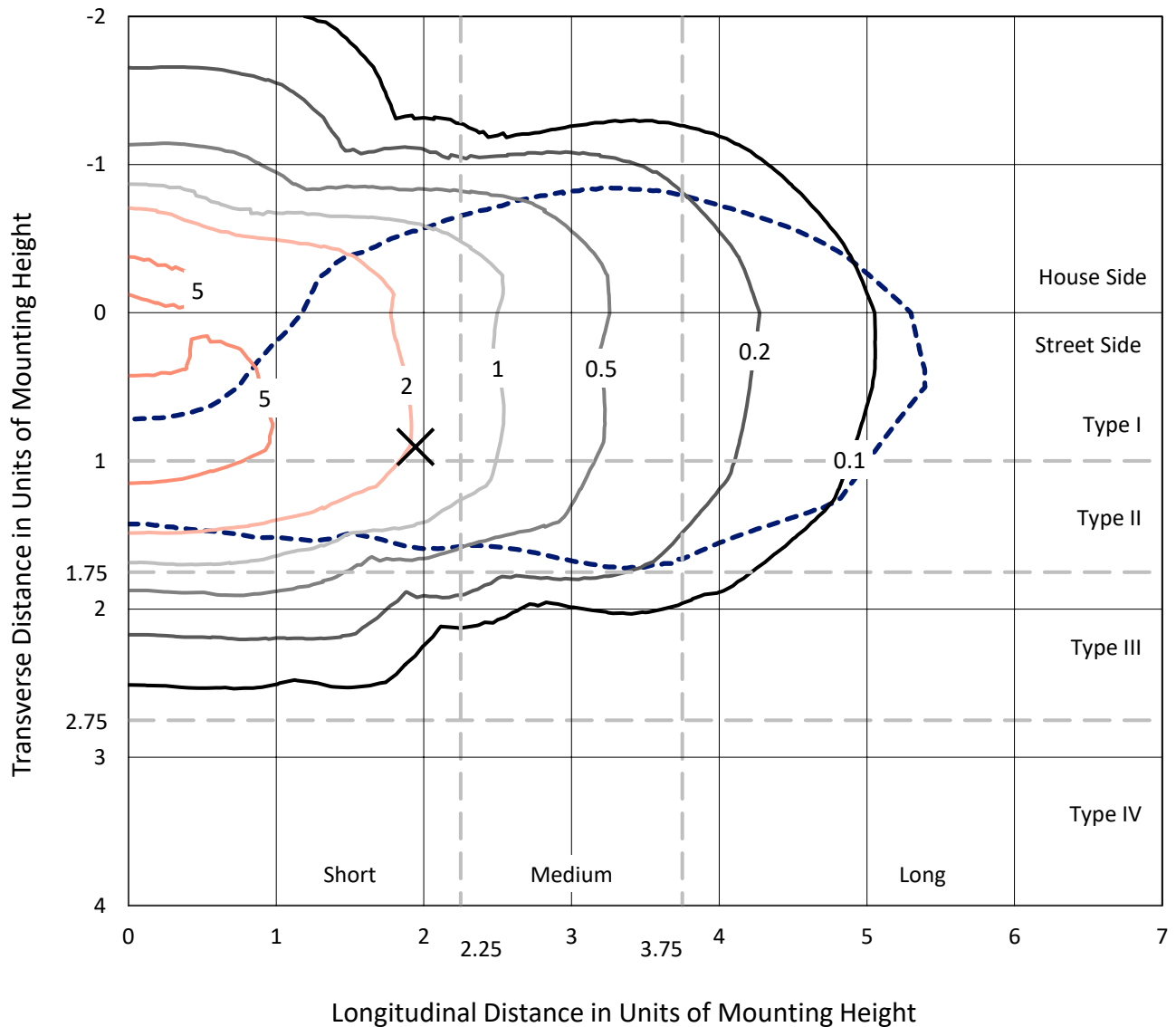
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

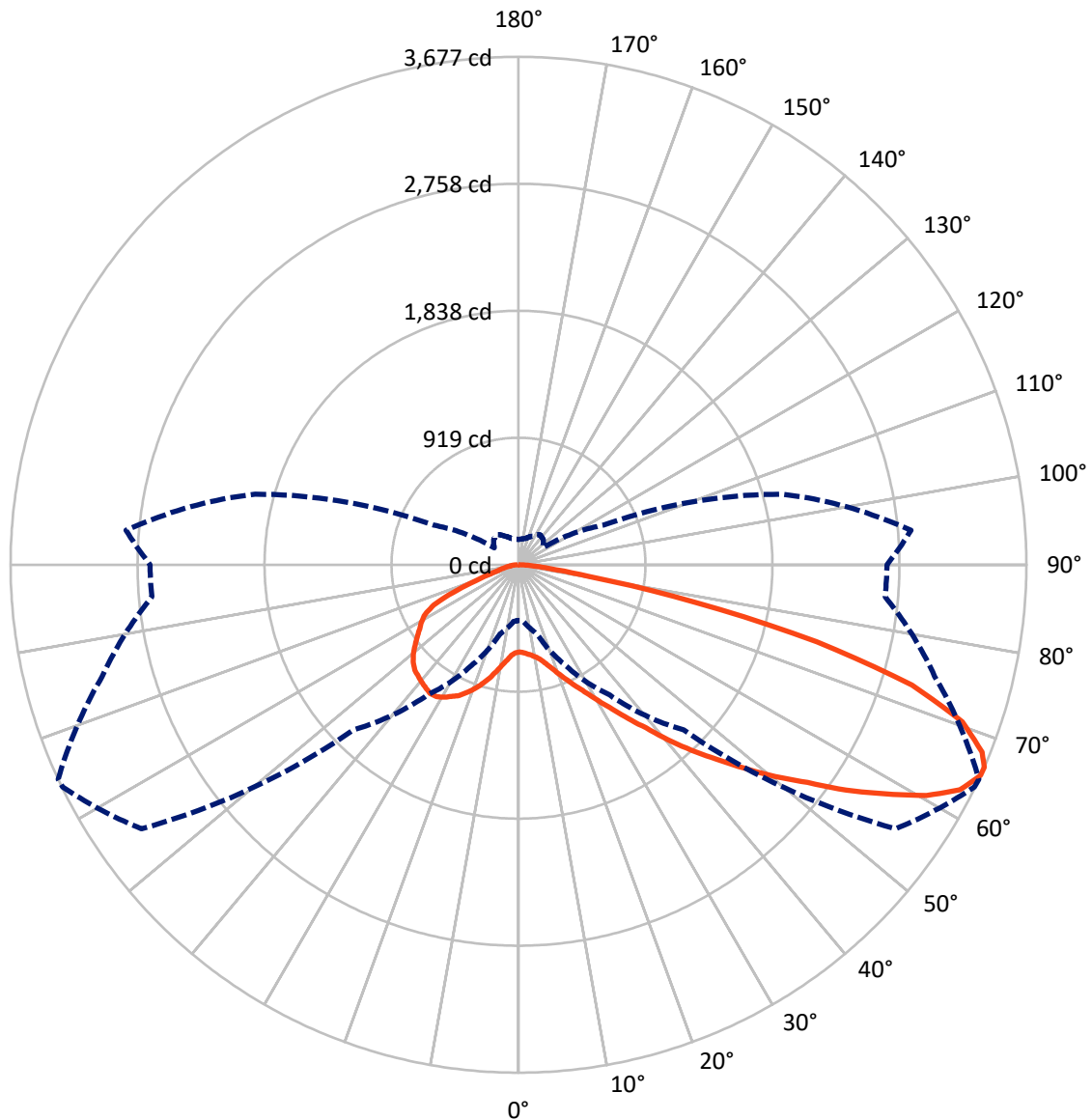
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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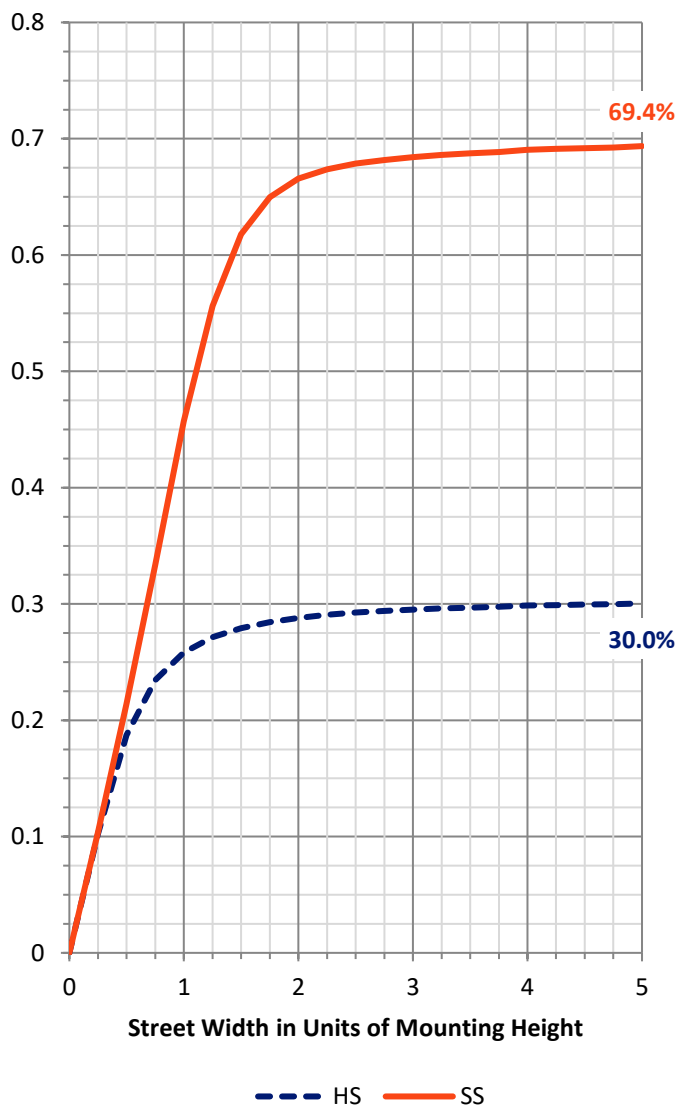
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1924.5	0.0	1924.5
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	4413.5	0.0	4413.5
	% Fixture	69.6	0.0	69.6
Total	Lumens	6338.0	0.0	6338.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.4	1.0
10°-20°	224.6	3.5
20°-30°	439.9	6.9
30°-40°	718.8	11.3
40°-50°	1141.0	18.0
50°-60°	1467.5	23.2
60°-70°	1323.4	20.9
70°-80°	820.8	13.0
80°-90°	137.5	2.2
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°	6338.0	100.0
0°-180°	6338.0	100.0

Coefficient of Utilization

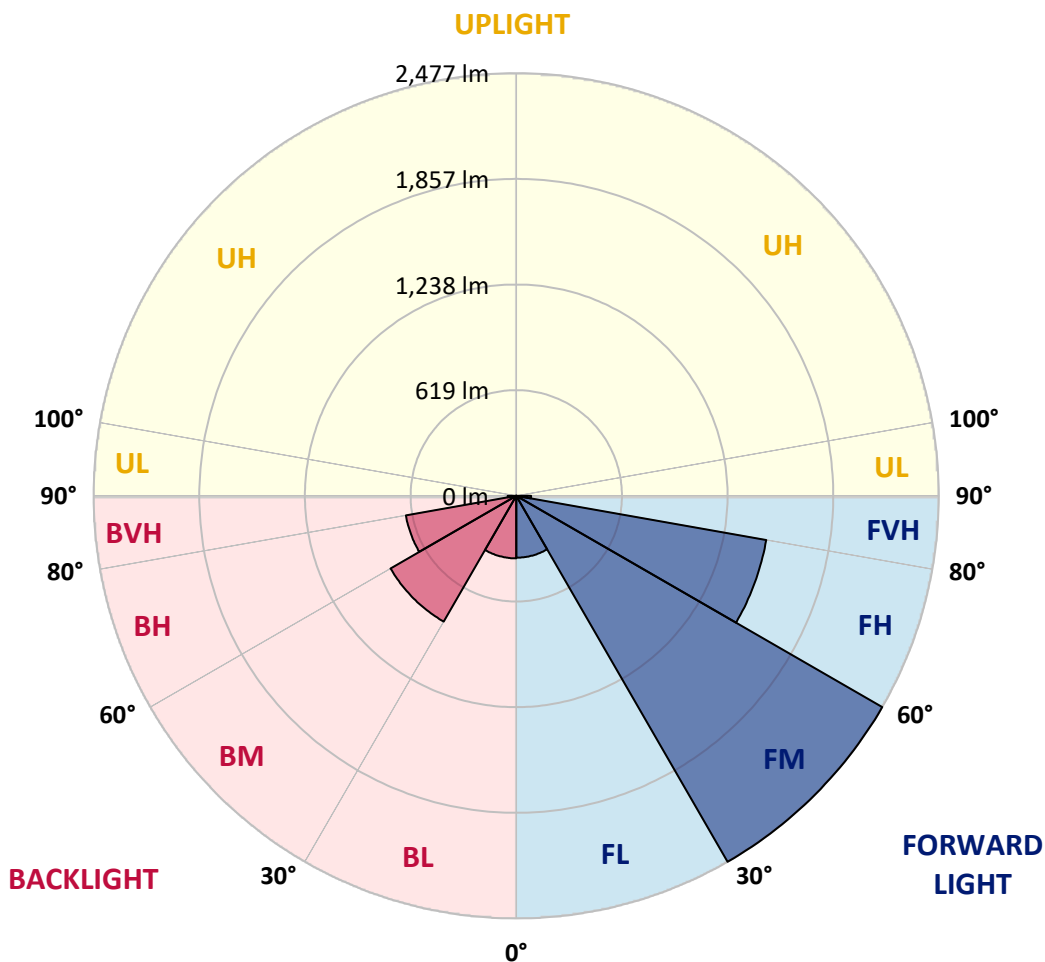


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	362.4	5.7			
FM (30°-60°)	2476.5	39.1			
FH (60°-80°)	1487.5	23.5			G1/1800
FVH (80°-90°)	87.0	1.4			G1/100
BL (0°-30°)	366.5	5.8	B1/500		
BM (30°-60°)	850.8	13.4	B1/1000		
BH (60°-80°)	656.6	10.4	B2/1000		G2/1000
BVH (80°-90°)	50.5	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7
2.5°	633.3	634.8	636.4	633.3	636.4	637.9	634.8	634.8	636.4	633.3	633.3
5°	628.7	630.2	633.3	634.8	641.0	644.0	645.6	645.6	647.1	645.6	647.1
7.5°	616.4	616.4	622.5	625.6	634.8	645.6	651.7	661.0	661.0	662.5	667.1
10°	628.7	628.7	633.3	637.9	645.6	654.8	664.0	674.8	677.9	688.6	694.8
12.5°	647.1	650.2	656.3	662.5	671.7	682.5	690.2	700.9	702.5	713.2	725.5
15°	677.9	680.9	684.0	691.7	704.0	717.8	731.7	739.3	742.4	748.6	757.8
17.5°	724.0	727.0	728.6	733.2	742.4	760.9	780.8	787.0	790.1	790.1	797.8
20°	802.4	800.8	797.8	788.5	788.5	805.4	833.1	843.9	846.9	840.8	836.2
22.5°	893.1	891.5	879.2	868.5	860.8	863.8	891.5	910.0	908.4	896.1	877.7
25°	1011.4	1014.5	994.5	966.8	943.8	937.6	954.5	973.0	976.1	953.0	922.3
27.5°	1152.8	1148.2	1137.5	1092.9	1048.3	1020.6	1029.9	1049.8	1051.4	1026.8	977.6
30°	1318.8	1311.1	1283.5	1237.4	1168.2	1129.8	1122.1	1139.0	1143.6	1102.1	1031.4
32.5°	1503.3	1495.6	1460.2	1389.5	1314.2	1249.7	1225.1	1248.1	1245.1	1197.4	1099.0
35°	1726.2	1724.6	1660.1	1572.5	1477.2	1391.1	1357.3	1357.3	1366.5	1295.8	1185.1
37.5°	2024.4	2036.7	1941.4	1804.6	1670.8	1555.5	1498.7	1495.6	1497.1	1420.3	1281.9
40°	2293.4	2288.7	2233.4	2105.8	1910.6	1763.1	1678.5	1660.1	1664.7	1566.3	1408.0
42.5°	2448.6	2453.2	2439.4	2384.0	2213.4	2027.4	1882.9	1833.8	1835.3	1712.3	1527.9
45°	2545.4	2550.0	2548.5	2576.2	2508.5	2333.3	2127.3	2013.6	2007.5	1878.3	1669.3
47.5°	2600.8	2603.8	2623.8	2680.7	2736.0	2696.1	2397.9	2213.4	2201.1	2033.6	1810.7
50°	2539.3	2540.8	2620.8	2756.0	2891.3	3012.7	2674.6	2411.7	2408.6	2205.7	1949.0
52.5°	2216.5	2244.2	2420.9	2703.8	3006.6	3237.1	2994.3	2645.3	2619.2	2368.7	2087.4
55°	1809.2	1821.5	2024.4	2384.0	2985.0	3375.5	3235.6	2897.4	2879.0	2550.0	2222.6
57.5°	1412.6	1424.9	1666.2	1965.9	2656.1	3367.8	3406.2	3169.5	3128.0	2708.4	2357.9
60°	911.5	949.9	1229.7	1598.6	2150.4	3134.1	3492.3	3430.8	3392.4	2865.2	2473.2
62.5°	619.5	625.6	800.8	1185.1	1609.3	2547.0	3486.1	3592.2	3586.1	3021.9	2588.5
65°	402.7	411.9	518.0	802.4	1151.3	1690.8	3332.4	3670.6	3676.7	3118.8	2663.8
66°	341.2	347.4	428.9	674.8	1008.3	1340.4	3197.2	3664.4	3676.7	3163.3	2686.8
67.5°	296.7	301.3	342.8	498.0	823.9	963.8	2845.2	3583.0	3618.3	3204.9	2716.1
70°	255.2	261.3	299.7	339.7	588.7	562.6	1801.5	3373.9	3409.3	3224.8	2734.5
72.5°	210.6	215.2	253.6	307.4	427.3	378.1	794.7	2888.2	2977.4	3151.1	2705.3
75°	166.0	169.1	204.4	256.7	327.4	295.1	345.8	2118.1	2230.3	2777.5	2591.5
77.5°	129.1	130.7	158.3	199.8	299.7	229.0	213.7	1031.4	1305.0	2145.8	2282.6
80°	89.2	92.2	116.8	150.6	219.8	181.4	143.0	402.7	511.9	1424.9	1730.8
82.5°	58.4	59.9	79.9	113.7	146.0	173.7	93.8	195.2	215.2	656.3	750.1
85°	40.0	40.0	56.9	70.7	99.9	115.3	61.5	103.0	112.2	249.0	90.7
87.5°	20.0	20.0	27.7	36.9	47.7	44.6	36.9	36.9	36.9	81.5	26.1
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°	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7
2.5°	634.8	634.8	636.4	637.9	639.4	639.4	641.0	641.0	639.4	641.0	642.5
5°	648.7	650.2	653.3	657.9	665.6	673.2	680.9	685.5	690.2	691.7	688.6
7.5°	670.2	673.2	684.0	696.3	708.6	727.0	737.8	744.0	747.0	750.1	747.0
10°	697.8	704.0	719.4	740.9	762.4	785.5	797.8	807.0	808.5	811.6	808.5
12.5°	730.1	740.9	763.9	794.7	820.8	843.9	853.1	846.9	833.1	827.0	825.4
15°	768.5	779.3	811.6	850.0	880.8	891.5	877.7	857.7	842.3	840.8	839.3
17.5°	802.4	817.7	862.3	902.3	931.5	920.7	883.8	871.5	866.9	873.1	871.5
20°	845.4	857.7	902.3	951.5	966.8	925.3	899.2	891.5	886.9	886.9	883.8
22.5°	880.8	890.0	943.8	997.6	988.4	928.4	910.0	894.6	879.2	877.7	873.1
25°	922.3	925.3	982.2	1040.6	991.4	931.5	899.2	873.1	857.7	853.1	854.6
27.5°	960.7	968.4	1017.6	1069.8	983.7	914.6	862.3	828.5	805.4	803.9	803.9
30°	1009.9	1009.9	1054.4	1102.1	966.8	871.5	802.4	753.2	734.7	733.2	730.1
32.5°	1065.2	1056.0	1099.0	1125.2	929.9	813.1	720.9	665.6	636.4	630.2	625.6
35°	1142.1	1122.1	1152.8	1129.8	893.1	730.1	617.9	554.9	533.4	524.2	524.2
37.5°	1231.2	1202.0	1234.3	1115.9	836.2	633.3	510.3	462.7	439.6	425.8	430.4
40°	1335.7	1298.8	1317.3	1100.6	774.7	525.7	421.2	392.0	364.3	345.8	345.8
42.5°	1458.7	1397.2	1411.1	1085.2	687.1	431.9	364.3	344.3	322.8	304.3	309.0
45°	1577.1	1517.1	1503.3	1069.8	594.9	368.9	341.2	327.4	307.4	285.9	285.9
47.5°	1713.9	1637.0	1584.7	1042.2	504.2	348.9	347.4	327.4	289.0	258.2	255.2
50°	1843.0	1772.3	1658.5	1000.7	453.4	365.8	345.8	298.2	261.3	241.3	239.8
52.5°	1979.8	1906.0	1718.5	949.9	427.3	358.1	318.2	273.6	245.9	226.0	221.3
55°	2115.0	2076.6	1772.3	900.7	385.8	333.6	295.1	258.2	229.0	210.6	207.5
57.5°	2268.8	2253.4	1818.4	851.6	321.3	302.8	278.2	247.5	219.8	206.0	204.4
60°	2402.5	2456.3	1873.7	814.7	273.6	279.8	270.5	245.9	226.0	210.6	210.6
62.5°	2543.9	2651.5	1922.9	767.0	238.3	265.9	272.1	244.4	218.3	204.4	204.4
65°	2666.9	2851.3	1973.6	679.4	213.7	255.2	267.5	227.5	196.7	186.0	182.9
66°	2719.1	2908.2	1989.0	625.6	204.4	247.5	259.8	218.3	187.5	178.3	176.8
67.5°	2780.6	2997.3	2007.5	510.3	190.6	230.6	242.9	204.4	172.2	166.0	162.9
70°	2866.7	3015.8	1996.7	333.6	166.0	198.3	216.7	182.9	153.7	149.1	144.5
72.5°	2875.9	2889.7	1889.1	210.6	144.5	170.6	190.6	164.5	135.3	130.7	127.6
75°	2723.7	2560.8	1598.6	150.6	127.6	150.6	167.5	143.0	112.2	106.1	103.0
77.5°	2325.6	2032.0	1149.8	112.2	110.7	129.1	139.9	124.5	93.8	89.2	87.6
80°	1632.4	1378.8	576.4	84.5	87.6	107.6	116.8	104.5	78.4	72.2	69.2
82.5°	661.0	585.6	198.3	63.0	66.1	81.5	99.9	86.1	59.9	52.3	46.1
85°	75.3	127.6	86.1	43.0	44.6	55.3	67.6	52.3	35.4	29.2	24.6
87.5°	15.4	27.7	30.7	16.9	15.4	21.5	30.7	18.4	12.3	4.6	6.1
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)