

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: P594203

Luminaire Tested: **ISC-PA1D-727-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594203
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: ISC-PA1D-727-U-T2U
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
(1) 70 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: 7210 lumens
Efficiency: N/A
Efficacy: 114.4 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

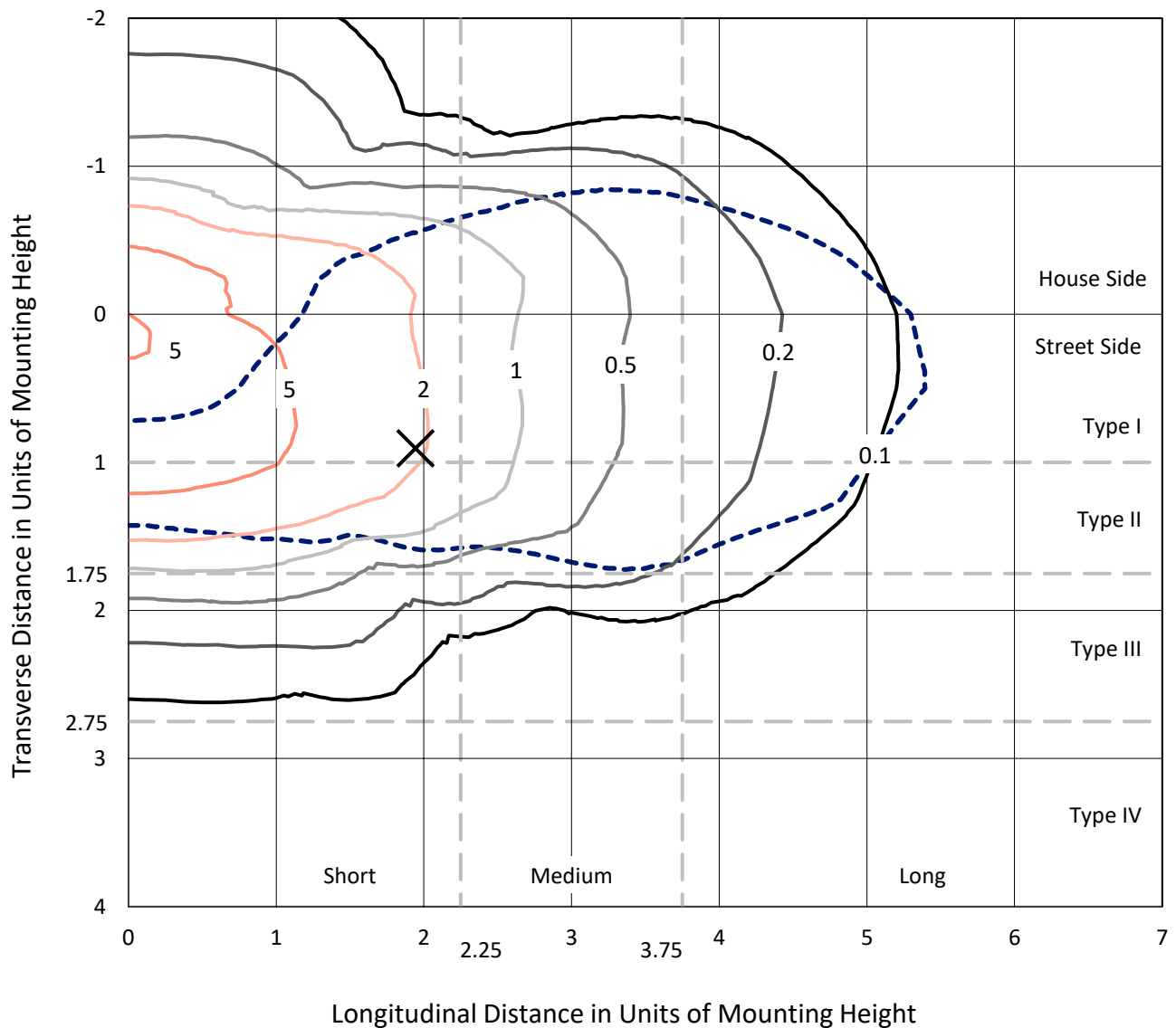
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

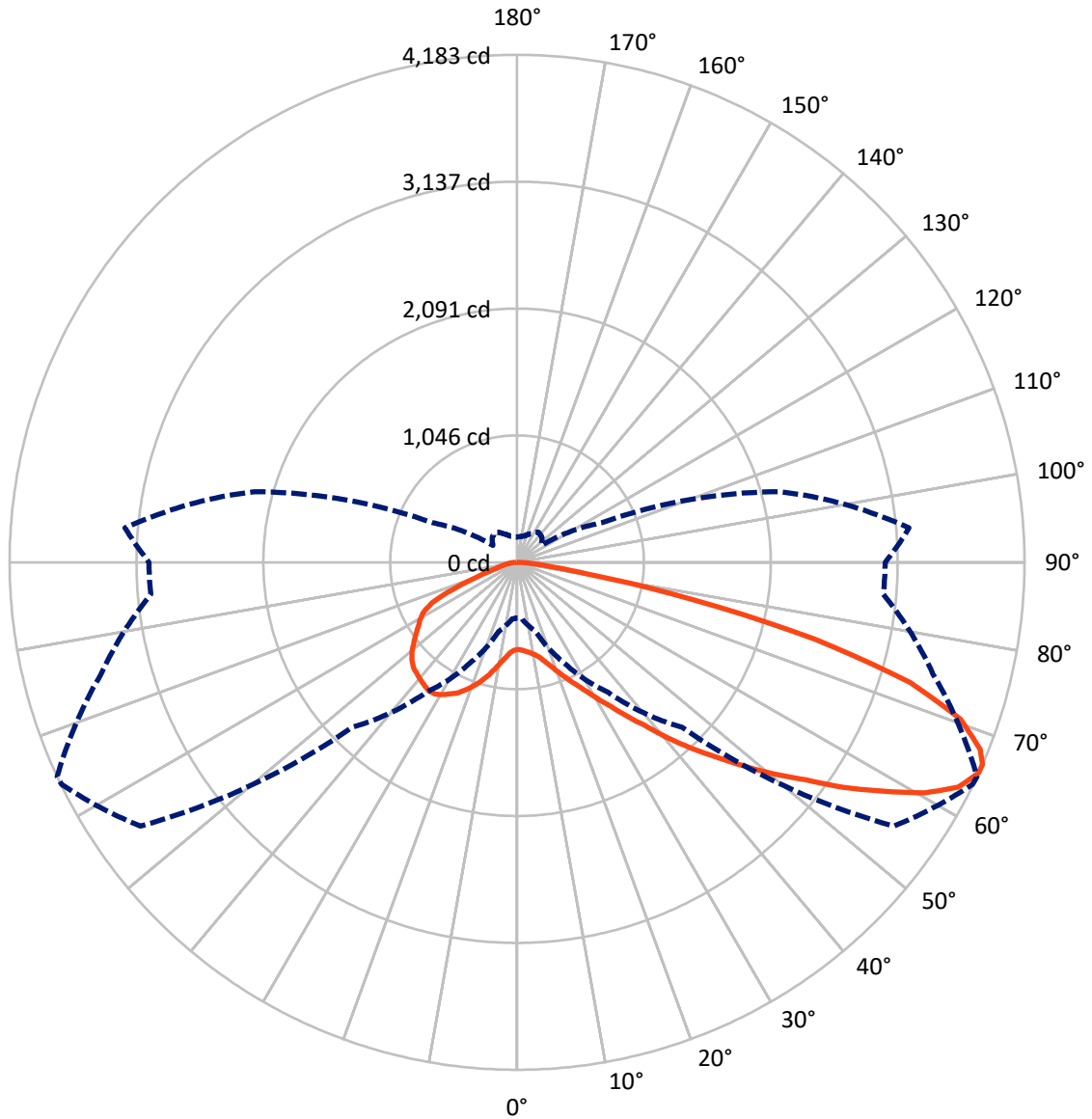
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8 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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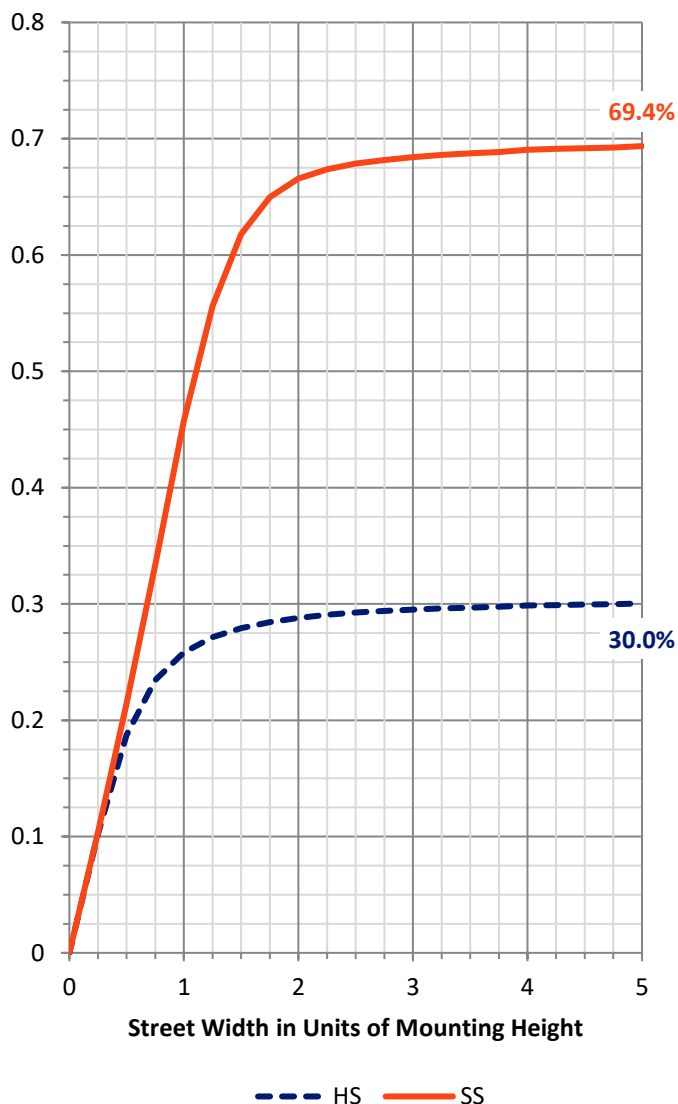
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2189.2	0.0	2189.2
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	5020.8	0.0	5020.8
	% Fixture	69.6	0.0	69.6
Total	Lumens	7210.0	0.0	7210.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	1.0
10°-20°	255.5	3.5
20°-30°	500.4	6.9
30°-40°	817.7	11.3
40°-50°	1298.0	18.0
50°-60°	1669.4	23.2
60°-70°	1505.5	20.9
70°-80°	933.7	13.0
80°-90°	156.5	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°	7210.0	100.0
0°-180°	7210.0	100.0

Coefficient of Utilization



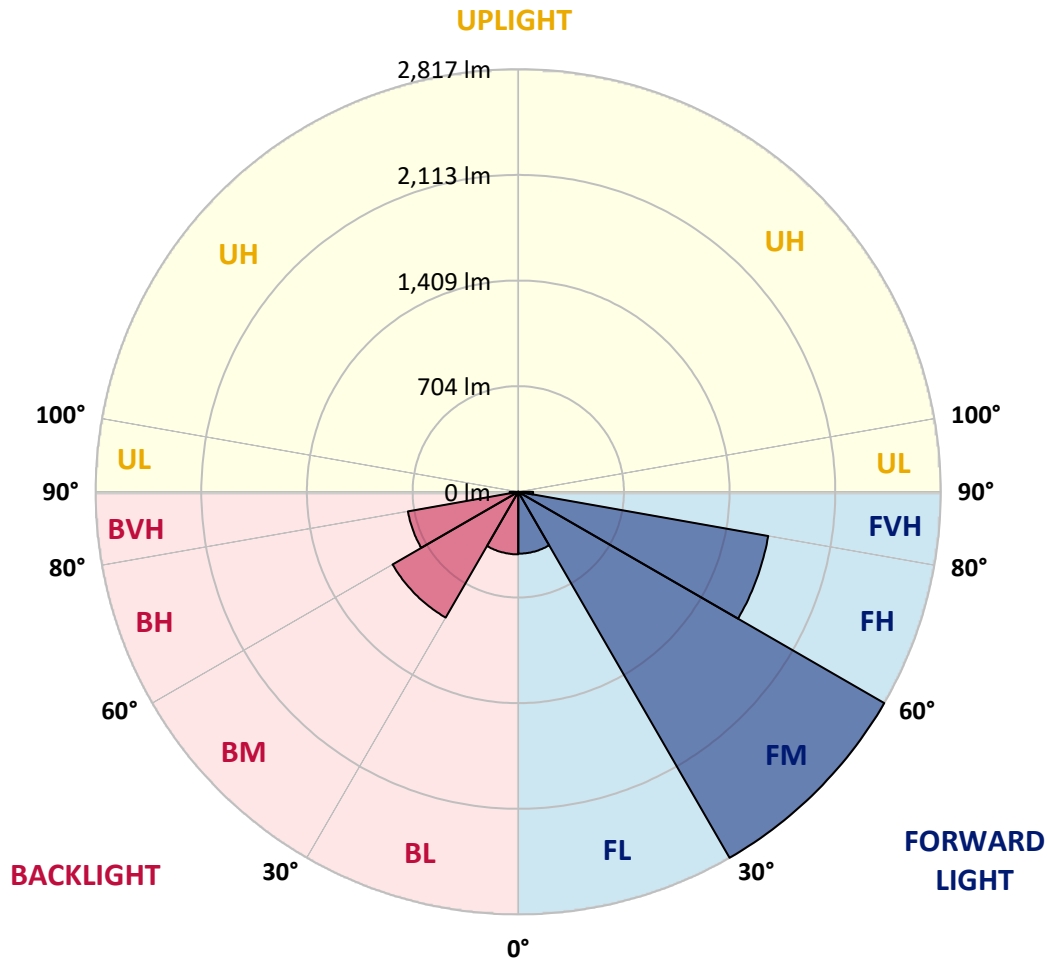
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	412.3	5.7			
FM (30°-60°)	2817.3	39.1			
FH (60°-80°)	1692.2	23.5			G1/1800
FVH (80°-90°)	99.0	1.4			G1/100
BL (0°-30°)	417.0	5.8	B1/500		
BM (30°-60°)	967.8	13.4	B1/1000		
BH (60°-80°)	747.0	10.4	B2/1000		G2/1000
BVH (80°-90°)	57.5	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°	718.7	718.7	718.7	718.7	718.7	718.7	718.7	718.7	718.7	718.7	718.7
2.5°	720.4	722.2	723.9	720.4	723.9	725.7	722.2	722.2	723.9	720.4	720.4
5°	715.2	716.9	720.4	722.2	729.2	732.7	734.4	734.4	736.2	734.4	736.2
7.5°	701.2	701.2	708.2	711.7	722.2	734.4	741.4	751.9	751.9	753.6	758.9
10°	715.2	715.2	720.4	725.7	734.4	744.9	755.4	767.6	771.1	783.4	790.4
12.5°	736.2	739.6	746.6	753.6	764.1	776.4	785.1	797.4	799.1	811.3	825.3
15°	771.1	774.6	778.1	786.9	800.8	816.6	832.3	841.1	844.6	851.6	862.0
17.5°	823.6	827.1	828.8	834.1	844.6	865.5	888.3	895.3	898.8	898.8	907.5
20°	912.8	911.0	907.5	897.0	897.0	916.3	947.7	960.0	963.5	956.5	951.2
22.5°	1015.9	1014.2	1000.2	987.9	979.2	982.7	1014.2	1035.2	1033.4	1019.4	998.4
25°	1150.6	1154.1	1131.3	1099.9	1073.6	1066.6	1085.9	1106.8	1110.3	1084.1	1049.1
27.5°	1311.4	1306.2	1293.9	1243.2	1192.5	1161.1	1171.5	1194.3	1196.0	1168.0	1112.1
30°	1500.3	1491.5	1460.1	1407.6	1328.9	1285.2	1276.5	1295.7	1300.9	1253.7	1173.3
32.5°	1710.1	1701.4	1661.1	1580.7	1495.0	1421.6	1393.6	1419.8	1416.3	1362.1	1250.2
35°	1963.7	1961.9	1888.5	1788.8	1680.4	1582.5	1544.0	1544.0	1554.5	1474.1	1348.2
37.5°	2302.9	2316.9	2208.5	2052.8	1900.7	1769.6	1704.9	1701.4	1703.1	1615.7	1458.3
40°	2608.9	2603.6	2540.7	2395.6	2173.5	2005.6	1909.4	1888.5	1893.7	1781.8	1601.7
42.5°	2785.5	2790.7	2775.0	2712.0	2518.0	2306.4	2142.0	2086.1	2087.8	1947.9	1738.1
45°	2895.6	2900.9	2899.1	2930.6	2853.7	2654.3	2420.0	2290.6	2283.6	2136.8	1899.0
47.5°	2958.6	2962.1	2984.8	3049.5	3112.5	3067.0	2727.8	2518.0	2504.0	2313.4	2059.8
50°	2888.7	2890.4	2981.3	3135.2	3289.1	3427.2	3042.5	2743.5	2740.0	2509.2	2217.2
52.5°	2521.4	2552.9	2754.0	3075.7	3420.2	3682.5	3406.2	3009.3	2979.6	2694.6	2374.6
55°	2058.1	2072.1	2302.9	2712.0	3395.7	3839.9	3680.8	3296.1	3275.1	2900.9	2528.4
57.5°	1606.9	1620.9	1895.5	2236.4	3021.5	3831.1	3874.8	3605.6	3558.4	3081.0	2682.3
60°	1036.9	1080.6	1398.9	1818.5	2446.3	3565.3	3972.8	3902.8	3859.1	3259.3	2813.5
62.5°	704.7	711.7	911.0	1348.2	1830.8	2897.4	3965.8	4086.4	4079.4	3437.7	2944.6
65°	458.1	468.6	589.3	912.8	1309.7	1923.4	3790.9	4175.6	4182.6	3547.9	3030.3
66°	388.2	395.2	487.9	767.6	1147.1	1524.8	3637.0	4168.6	4182.6	3598.6	3056.5
67.5°	337.5	342.7	389.9	566.5	937.2	1096.4	3236.6	4075.9	4116.2	3645.8	3089.7
70°	290.3	297.3	341.0	386.4	669.7	640.0	2049.3	3838.1	3878.3	3668.5	3110.7
72.5°	239.6	244.8	288.5	349.7	486.1	430.2	904.0	3285.6	3387.0	3584.6	3077.5
75°	188.8	192.3	232.6	292.0	372.4	335.7	393.4	2409.5	2537.2	3159.7	2948.1
77.5°	146.9	148.6	180.1	227.3	341.0	260.5	243.1	1173.3	1484.5	2441.0	2596.6
80°	101.4	104.9	132.9	171.4	250.0	206.3	162.6	458.1	582.3	1620.9	1968.9
82.5°	66.4	68.2	90.9	129.4	166.1	197.6	106.7	222.1	244.8	746.6	853.3
85°	45.5	45.5	64.7	80.4	113.7	131.1	69.9	117.2	127.6	283.3	103.2
87.5°	22.7	22.7	31.5	42.0	54.2	50.7	42.0	42.0	42.0	92.7	29.7
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°	718.7	718.7	718.7	718.7	718.7	718.7	718.7	718.7	718.7	718.7	718.7
2.5°	722.2	722.2	723.9	725.7	727.4	727.4	729.2	729.2	727.4	729.2	730.9
5°	737.9	739.6	743.1	748.4	757.1	765.9	774.6	779.9	785.1	786.9	783.4
7.5°	762.4	765.9	778.1	792.1	806.1	827.1	839.3	846.3	849.8	853.3	849.8
10°	793.9	800.8	818.3	842.8	867.3	893.5	907.5	918.0	919.8	923.2	919.8
12.5°	830.6	842.8	869.0	904.0	933.7	960.0	970.5	963.5	947.7	940.7	939.0
15°	874.3	886.5	923.2	967.0	1001.9	1014.2	998.4	975.7	958.2	956.5	954.7
17.5°	912.8	930.2	981.0	1026.4	1059.6	1047.4	1005.4	991.4	986.2	993.2	991.4
20°	961.7	975.7	1026.4	1082.4	1099.9	1052.6	1022.9	1014.2	1008.9	1008.9	1005.4
22.5°	1001.9	1012.4	1073.6	1134.8	1124.3	1056.1	1035.2	1017.7	1000.2	998.4	993.2
25°	1049.1	1052.6	1117.3	1183.8	1127.8	1059.6	1022.9	993.2	975.7	970.5	972.2
27.5°	1092.9	1101.6	1157.6	1217.0	1119.1	1040.4	981.0	942.5	916.3	914.5	914.5
30°	1148.8	1148.8	1199.5	1253.7	1099.9	991.4	912.8	856.8	835.8	834.1	830.6
32.5°	1211.8	1201.3	1250.2	1280.0	1057.9	925.0	820.1	757.1	723.9	716.9	711.7
35°	1299.2	1276.5	1311.4	1285.2	1015.9	830.6	702.9	631.2	606.8	596.3	596.3
37.5°	1400.6	1367.4	1404.1	1269.5	951.2	720.4	580.5	526.3	500.1	484.4	489.6
40°	1519.5	1477.5	1498.5	1252.0	881.3	598.0	479.1	445.9	414.4	393.4	393.4
42.5°	1659.4	1589.5	1605.2	1234.5	781.6	491.4	414.4	391.7	367.2	346.2	351.5
45°	1794.0	1725.8	1710.1	1217.0	676.7	419.7	388.2	372.4	349.7	325.2	325.2
47.5°	1949.7	1862.2	1802.8	1185.5	573.5	396.9	395.2	372.4	328.7	293.8	290.3
50°	2096.5	2016.1	1886.7	1138.3	515.8	416.2	393.4	339.2	297.3	274.5	272.8
52.5°	2252.2	2168.2	1954.9	1080.6	486.1	407.4	362.0	311.2	279.8	257.0	251.8
55°	2406.0	2362.3	2016.1	1024.7	438.9	379.4	335.7	293.8	260.5	239.6	236.1
57.5°	2580.9	2563.4	2068.6	968.7	365.5	344.5	316.5	281.5	250.0	234.3	232.6
60°	2733.0	2794.2	2131.5	926.7	311.2	318.2	307.7	279.8	257.0	239.6	239.6
62.5°	2893.9	3016.3	2187.5	872.5	271.0	302.5	309.5	278.0	248.3	232.6	232.6
65°	3033.8	3243.6	2245.2	772.9	243.1	290.3	304.3	258.8	223.8	211.6	208.1
66°	3093.2	3308.3	2262.7	711.7	232.6	281.5	295.5	248.3	213.3	202.8	201.1
67.5°	3163.2	3409.7	2283.6	580.5	216.8	262.3	276.3	232.6	195.8	188.8	185.3
70°	3261.1	3430.7	2271.4	379.4	188.8	225.6	246.5	208.1	174.9	169.6	164.4
72.5°	3271.6	3287.3	2149.0	239.6	164.4	194.1	216.8	187.1	153.9	148.6	145.1
75°	3098.5	2913.1	1818.5	171.4	145.1	171.4	190.6	162.6	127.6	120.7	117.2
77.5°	2645.6	2311.6	1307.9	127.6	125.9	146.9	159.1	141.6	106.7	101.4	99.7
80°	1857.0	1568.5	655.7	96.2	99.7	122.4	132.9	118.9	89.2	82.2	78.7
82.5°	751.9	666.2	225.6	71.7	75.2	92.7	113.7	97.9	68.2	59.5	52.5
85°	85.7	145.1	97.9	49.0	50.7	62.9	76.9	59.5	40.2	33.2	28.0
87.5°	17.5	31.5	35.0	19.2	17.5	24.5	35.0	21.0	14.0	5.2	7.0
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)