

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: P594421

Luminaire Tested: **ISC-PA1F-827-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594421
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: ISC-PA1F-827-U-T3
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8431 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

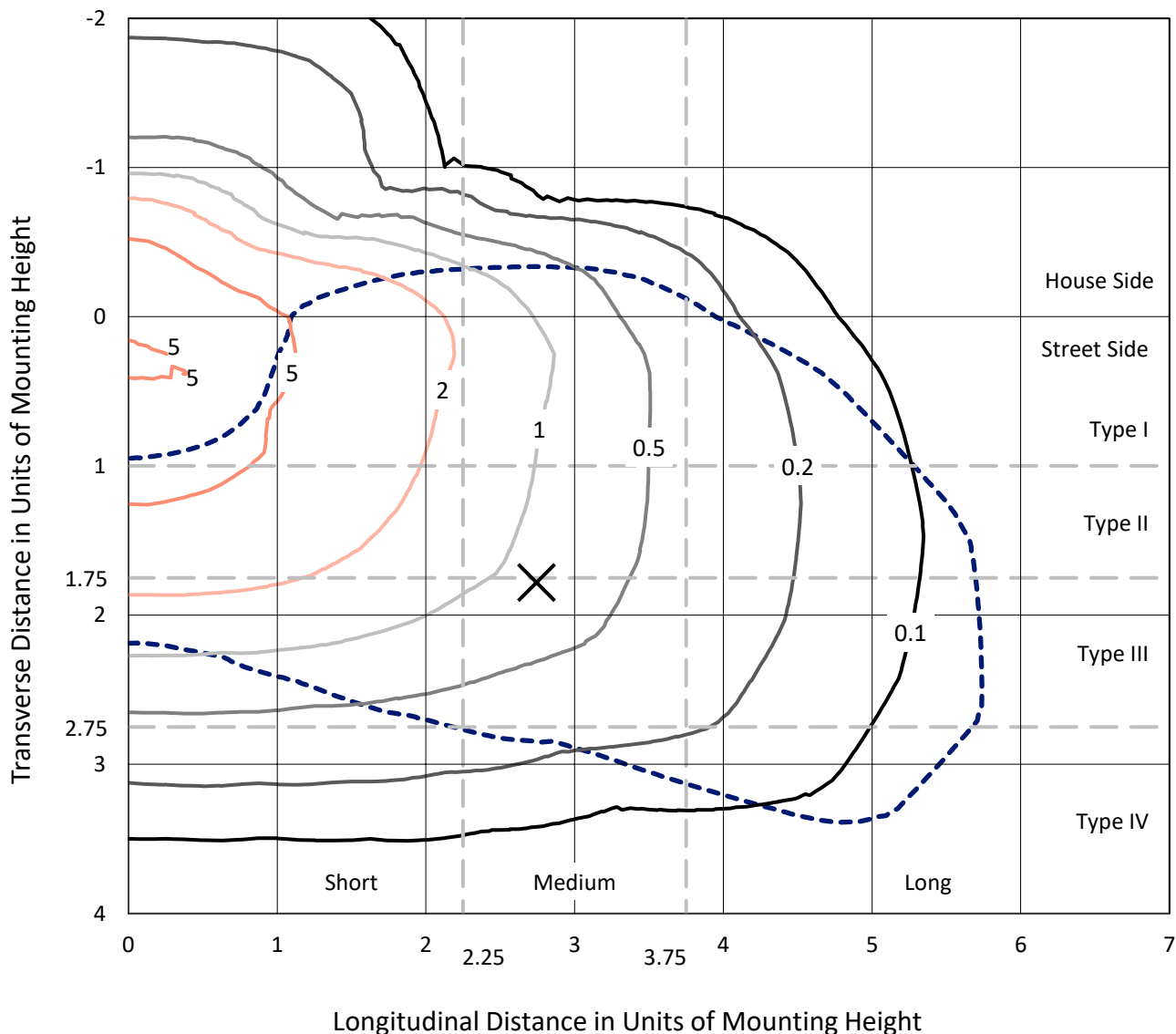
Input Watts (W): 94.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P594421
 CATALOG NUMBER: ISC-PA1F-827-U-T3

Iso-Footcandle Lines of Horizontal Illumination

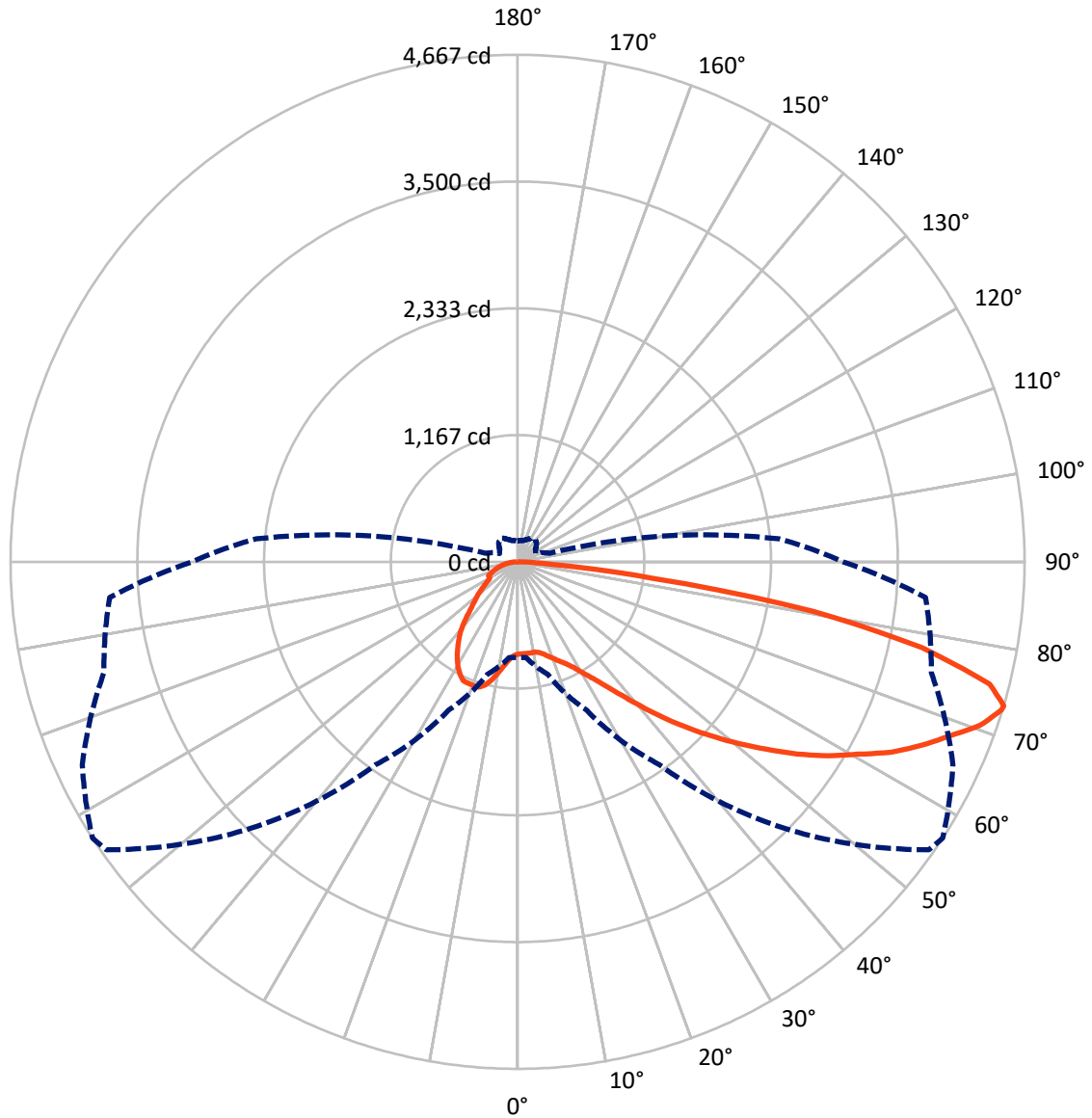
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Medium - N/A

REPORT NUMBER: P594421
CATALOG NUMBER: ISC-PA1F-827-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P594421
 CATALOG NUMBER: ISC-PA1F-827-U-T3

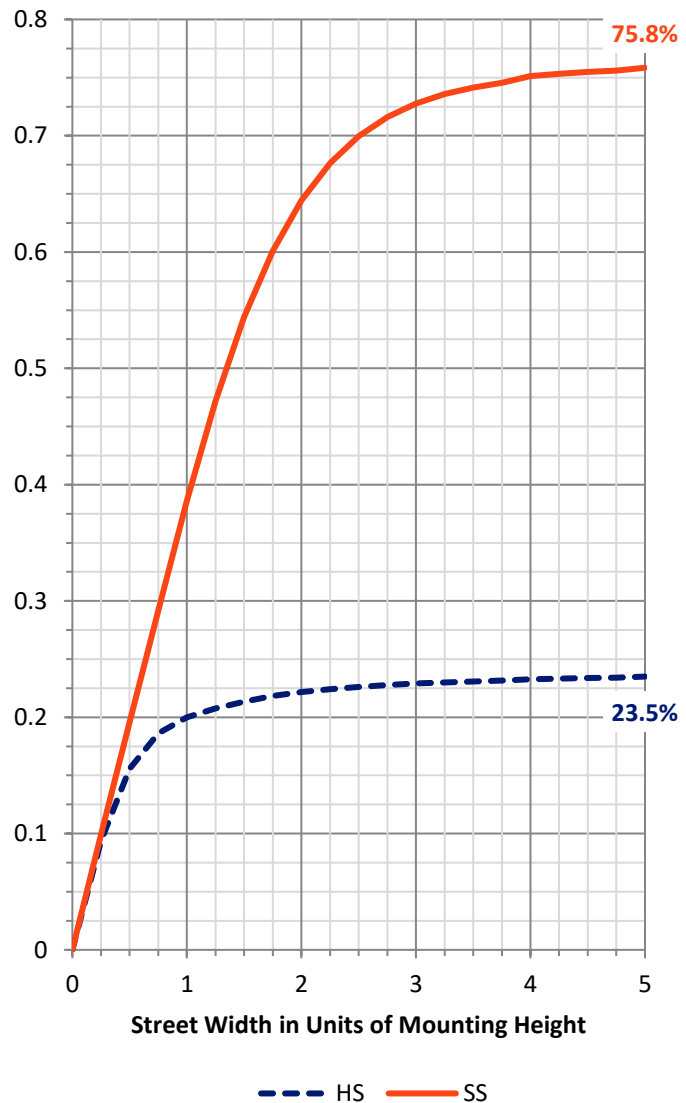
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2011.3	0.0	2011.3
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	6419.7	0.0	6419.7
	% Fixture	76.1	0.0	76.1
Total	Lumens	8431.0	0.0	8431.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	1.0
10°-20°	278.9	3.3
20°-30°	514.9	6.1
30°-40°	795.1	9.4
40°-50°	1196.8	14.2
50°-60°	1751.6	20.8
60°-70°	2068.5	24.5
70°-80°	1480.9	17.6
80°-90°	259.5	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°	8431.0	100.0
0°-180°	8431.0	100.0

Coefficient of Utilization

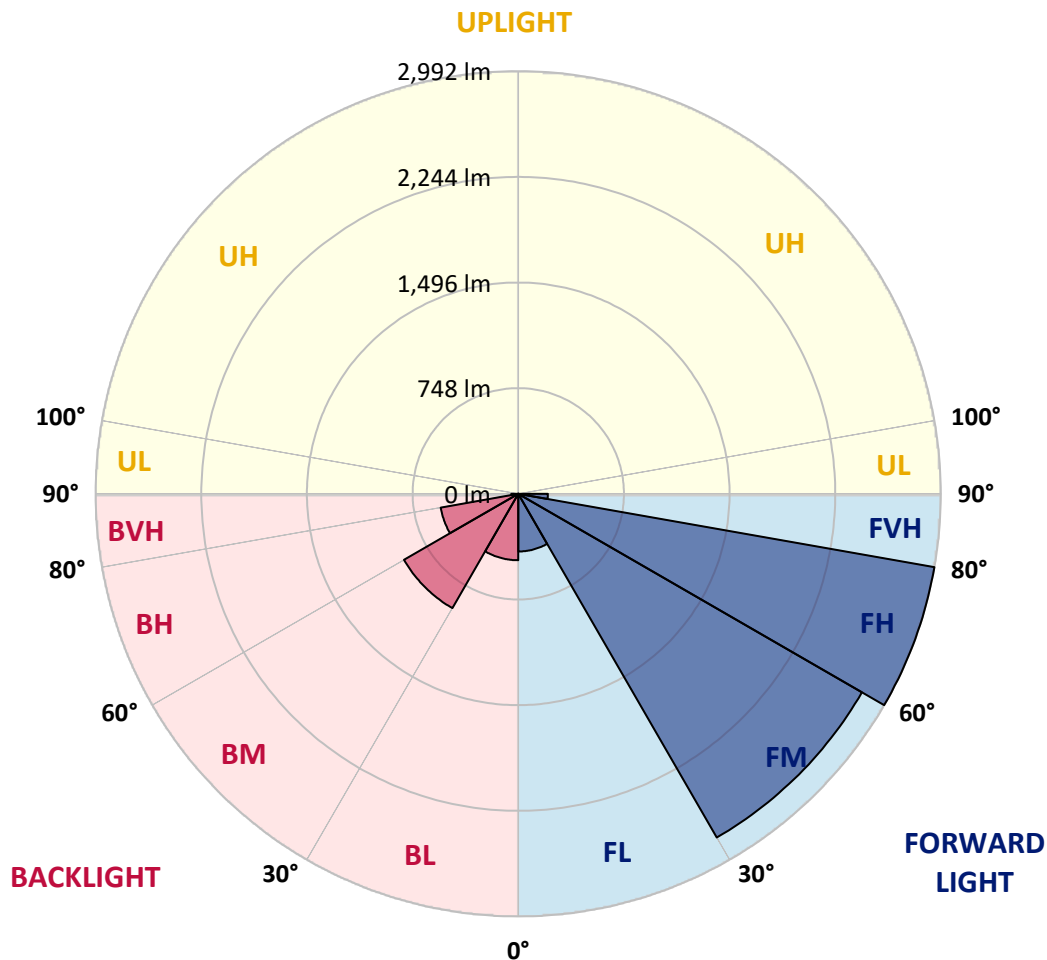


REPORT NUMBER: P594421
 CATALOG NUMBER: ISC-PA1F-827-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	408.5	4.8			
FM (30°-60°)	2809.4	33.3			
FH (60°-80°)	2991.8	35.5			G2/5000
FVH (80°-90°)	209.9	2.5			G2/225
BL (0°-30°)	470.1	5.6	B1/500		
BM (30°-60°)	934.0	11.1	B1/1000		
BH (60°-80°)	557.7	6.6	B2/1000		G2/1000
BVH (80°-90°)	49.6	0.6			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 IV Medium





REPORT NUMBER: P594421

CATALOG NUMBER: ISC-PA1F-827-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	849.4	849.4	849.4	849.4	849.4	849.4	849.4	849.4	849.4	849.4	849.4
2.5°	839.1	843.2	841.2	843.2	849.4	845.3	845.3	847.4	849.4	847.4	851.5
5°	804.0	806.0	810.2	818.4	832.9	837.0	847.4	847.4	851.5	855.6	861.8
7.5°	746.1	750.2	758.5	766.8	791.6	816.4	843.2	847.4	861.8	872.2	876.3
10°	735.8	739.9	742.0	754.4	779.2	804.0	837.0	845.3	872.2	888.7	907.3
12.5°	725.4	729.6	735.8	752.3	783.3	810.2	845.3	853.6	886.6	919.7	942.4
15°	733.7	735.8	742.0	758.5	789.5	826.7	872.2	878.4	915.6	956.9	992.0
17.5°	754.4	756.4	754.4	768.8	797.8	841.2	903.2	913.5	959.0	1000.3	1035.4
20°	801.9	804.0	795.7	795.7	816.4	859.8	936.2	950.7	1006.5	1052.0	1087.1
22.5°	905.2	901.1	880.4	853.6	853.6	888.7	973.4	994.1	1064.4	1101.6	1132.6
25°	1052.0	1052.0	1018.9	969.3	936.2	932.1	1016.8	1039.6	1122.2	1167.7	1186.3
27.5°	1229.7	1231.8	1178.0	1111.9	1047.8	1016.8	1078.8	1101.6	1194.6	1242.1	1248.3
30°	1386.8	1388.8	1335.1	1273.1	1194.6	1126.4	1161.5	1186.3	1293.8	1331.0	1310.3
32.5°	1543.8	1545.9	1508.7	1424.0	1341.3	1256.6	1266.9	1281.4	1390.9	1426.0	1393.0
35°	1680.3	1686.5	1649.3	1585.2	1498.4	1421.9	1403.3	1405.4	1504.6	1527.3	1483.9
37.5°	1818.7	1818.7	1796.0	1736.1	1661.7	1576.9	1552.1	1558.3	1647.2	1669.9	1607.9
40°	1994.4	2002.7	1990.3	1915.9	1831.1	1760.9	1736.1	1744.3	1841.5	1829.1	1762.9
42.5°	2207.3	2225.9	2205.2	2124.6	2033.7	1955.1	1955.1	1955.1	2037.8	2039.9	1940.7
45°	2480.1	2480.1	2459.4	2389.1	2269.3	2190.7	2163.9	2170.1	2242.4	2250.7	2134.9
47.5°	2707.4	2728.1	2705.4	2653.7	2558.6	2484.2	2399.5	2389.1	2449.1	2449.1	2349.9
50°	2891.4	2928.6	2910.0	2932.7	2864.5	2827.3	2653.7	2624.7	2645.4	2666.1	2556.5
52.5°	3044.3	3073.2	3067.0	3133.2	3166.2	3186.9	2912.0	2866.6	2883.1	2881.0	2781.8
55°	3054.6	3065.0	3158.0	3306.8	3437.0	3534.1	3172.4	3122.8	3106.3	3098.0	3021.6
57.5°	2994.7	3000.9	3186.9	3362.6	3645.7	3757.3	3418.4	3368.8	3346.0	3317.1	3286.1
60°	2850.0	2881.0	3124.9	3395.6	3769.7	3930.9	3647.8	3596.1	3579.6	3517.6	3587.8
62.5°	2666.1	2680.6	2924.4	3327.4	3786.3	4005.3	3889.6	3858.6	3806.9	3718.1	3856.5
65°	2405.7	2403.6	2618.5	3127.0	3701.5	4042.5	4094.2	4077.7	4013.6	3860.7	4096.3
67.5°	1975.8	2023.3	2234.1	2771.5	3496.9	4079.7	4302.9	4282.3	4181.0	3988.8	4209.9
70°	1506.6	1535.6	1775.3	2238.3	3089.8	3978.5	4507.5	4513.7	4329.8	4015.7	4160.3
72.5°	961.0	1010.6	1200.8	1630.7	2473.9	3602.3	4629.5	4658.4	4412.5	3978.5	3852.4
73°	880.4	884.6	1070.6	1508.7	2281.7	3468.0	4621.2	4666.7	4420.7	3941.3	3767.7
75°	524.9	547.7	659.3	1002.4	1628.6	2786.0	4398.0	4488.9	4377.3	3775.9	3302.6
77.5°	245.9	262.5	324.5	529.1	886.6	1676.1	3697.4	3804.9	3879.3	3304.7	2517.3
80°	130.2	132.3	159.1	266.6	475.3	690.3	2577.2	2755.0	2860.4	2488.3	1692.7
82.5°	109.5	109.5	124.0	171.5	303.8	268.7	1062.3	1264.8	1550.0	1225.6	665.5
85°	88.9	90.9	124.0	128.1	217.0	138.5	254.2	318.3	601.4	541.5	74.4
87.5°	28.9	33.1	70.3	90.9	115.7	53.7	64.1	70.3	70.3	103.3	24.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P594421
 CATALOG NUMBER: ISC-PA1F-827-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	849.4	849.4	849.4	849.4	849.4	849.4	849.4	849.4	849.4	849.4	849.4
2.5°	853.6	853.6	855.6	857.7	861.8	861.8	866.0	868.0	872.2	874.2	868.0
5°	861.8	866.0	870.1	882.5	897.0	909.4	921.8	932.1	942.4	948.6	946.6
7.5°	884.6	890.8	907.3	930.0	959.0	977.6	996.2	1014.8	1023.0	1027.2	1027.2
10°	915.6	928.0	959.0	996.2	1029.2	1058.2	1072.6	1085.0	1089.2	1093.3	1089.2
12.5°	959.0	975.5	1023.0	1070.6	1107.8	1122.2	1120.2	1103.6	1080.9	1076.8	1072.6
15°	1014.8	1035.4	1089.2	1145.0	1173.9	1155.3	1107.8	1091.2	1087.1	1099.5	1095.4
17.5°	1062.3	1087.1	1153.2	1211.1	1204.9	1140.8	1126.4	1134.6	1130.5	1132.6	1132.6
20°	1107.8	1142.9	1213.2	1252.4	1198.7	1157.4	1145.0	1134.6	1122.2	1126.4	1122.2
22.5°	1165.6	1190.4	1271.0	1273.1	1190.4	1157.4	1130.5	1109.8	1105.7	1107.8	1109.8
25°	1211.1	1250.4	1320.6	1258.6	1190.4	1124.3	1087.1	1083.0	1085.0	1097.4	1093.3
27.5°	1273.1	1312.4	1359.9	1250.4	1140.8	1070.6	1056.1	1054.0	1039.6	1043.7	1043.7
30°	1331.0	1378.5	1380.6	1250.4	1078.8	1025.1	1004.4	967.2	936.2	942.4	940.4
32.5°	1409.5	1450.8	1384.7	1200.8	1008.6	965.2	909.4	851.5	837.0	845.3	847.4
35°	1500.4	1533.5	1388.8	1118.1	938.3	880.4	779.2	746.1	744.0	750.2	756.4
37.5°	1620.3	1638.9	1419.8	1023.0	870.1	748.2	669.6	661.4	642.8	630.4	632.4
40°	1767.1	1744.3	1479.8	938.3	789.5	628.3	595.2	572.5	537.4	502.2	508.4
42.5°	1930.3	1866.3	1498.4	870.1	680.0	553.9	522.9	487.7	444.3	407.1	405.1
45°	2106.0	2002.7	1481.8	816.4	570.4	498.1	465.0	423.7	372.0	341.0	341.0
47.5°	2314.7	2132.9	1430.2	773.0	493.9	448.5	407.1	365.8	330.7	301.7	301.7
50°	2544.1	2283.7	1393.0	696.5	440.2	400.9	359.6	326.5	299.7	276.9	276.9
52.5°	2786.0	2426.3	1362.0	584.9	392.7	357.5	328.6	301.7	279.0	250.1	245.9
55°	3031.9	2562.7	1376.4	477.4	349.3	326.5	307.9	281.1	272.8	266.6	262.5
57.5°	3288.2	2711.6	1411.6	390.6	312.1	310.0	301.7	320.3	338.9	326.5	320.3
60°	3488.6	2827.3	1415.7	328.6	289.3	326.5	367.9	374.1	324.5	295.5	293.5
62.5°	3647.8	2936.8	1318.6	285.2	295.5	384.4	392.7	330.7	281.1	268.7	268.7
65°	3730.5	2976.1	1060.2	260.4	307.9	367.9	355.5	297.6	262.5	260.4	260.4
67.5°	3689.1	2945.1	742.0	233.5	272.8	318.3	318.3	272.8	241.8	252.1	248.0
70°	3490.7	2792.2	489.8	210.8	239.7	287.3	295.5	254.2	225.3	231.5	225.3
72.5°	3077.4	2519.3	322.4	186.0	206.7	254.2	274.9	233.5	206.7	204.6	198.4
73°	2996.8	2416.0	303.8	181.9	200.5	245.9	268.7	229.4	202.5	196.3	192.2
75°	2542.1	2015.1	229.4	163.3	177.7	221.1	250.1	214.9	186.0	177.7	173.6
77.5°	1851.8	1397.1	171.5	138.5	148.8	192.2	221.1	196.3	165.3	155.0	152.9
80°	1155.3	760.6	128.1	111.6	117.8	161.2	194.3	175.7	142.6	130.2	128.1
82.5°	452.6	248.0	88.9	82.7	86.8	121.9	163.3	152.9	119.9	109.5	103.3
85°	74.4	84.7	57.9	55.8	55.8	86.8	124.0	117.8	80.6	70.3	62.0
87.5°	20.7	39.3	22.7	20.7	20.7	37.2	68.2	53.7	33.1	26.9	24.8
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)