

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: P595420

Luminaire Tested: **IST-PA1F-830-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595420
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: IST-PA1F-830-U-T3
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8847 lumens
Efficiency: N/A
Efficacy: 94.6 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

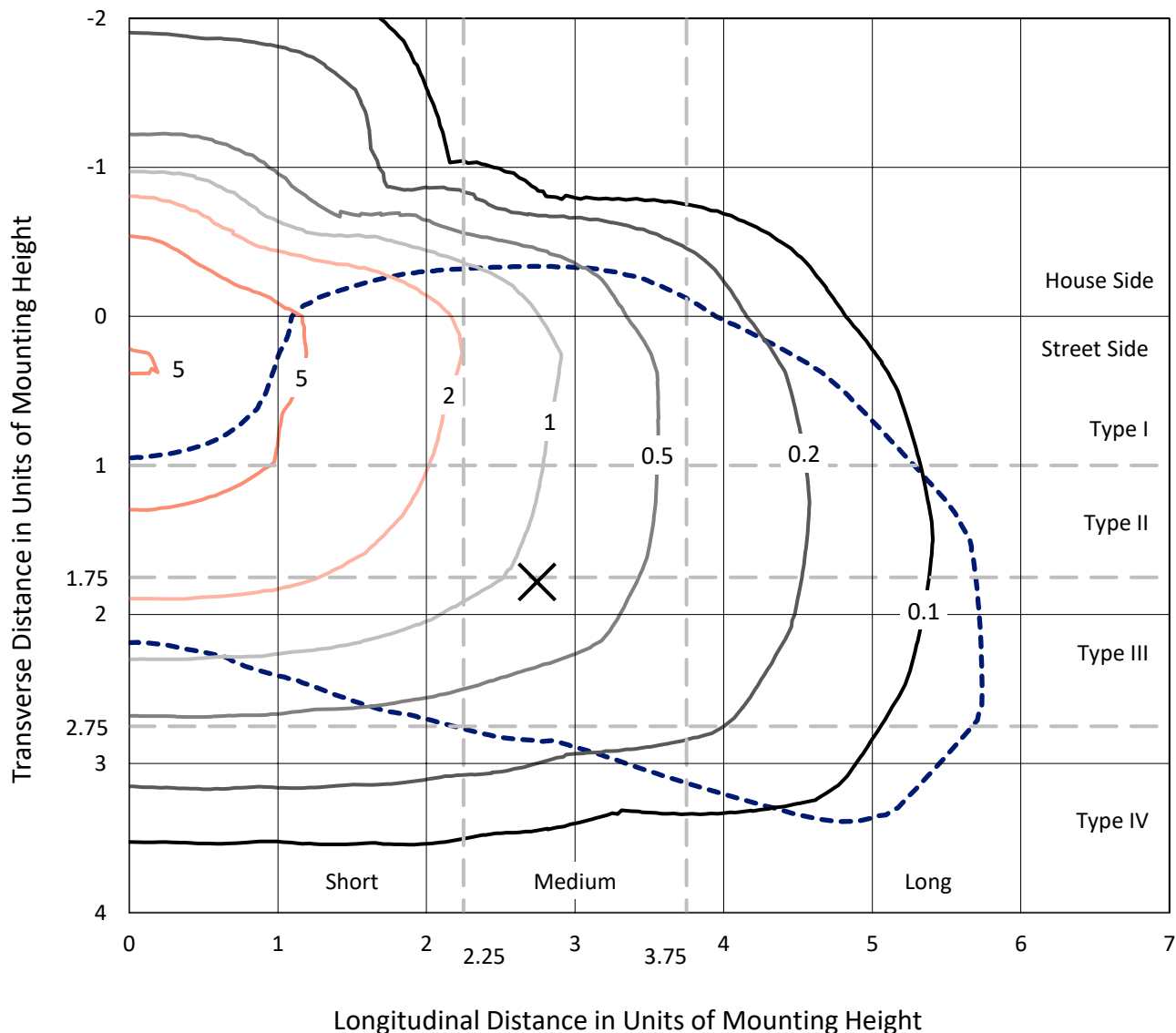
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

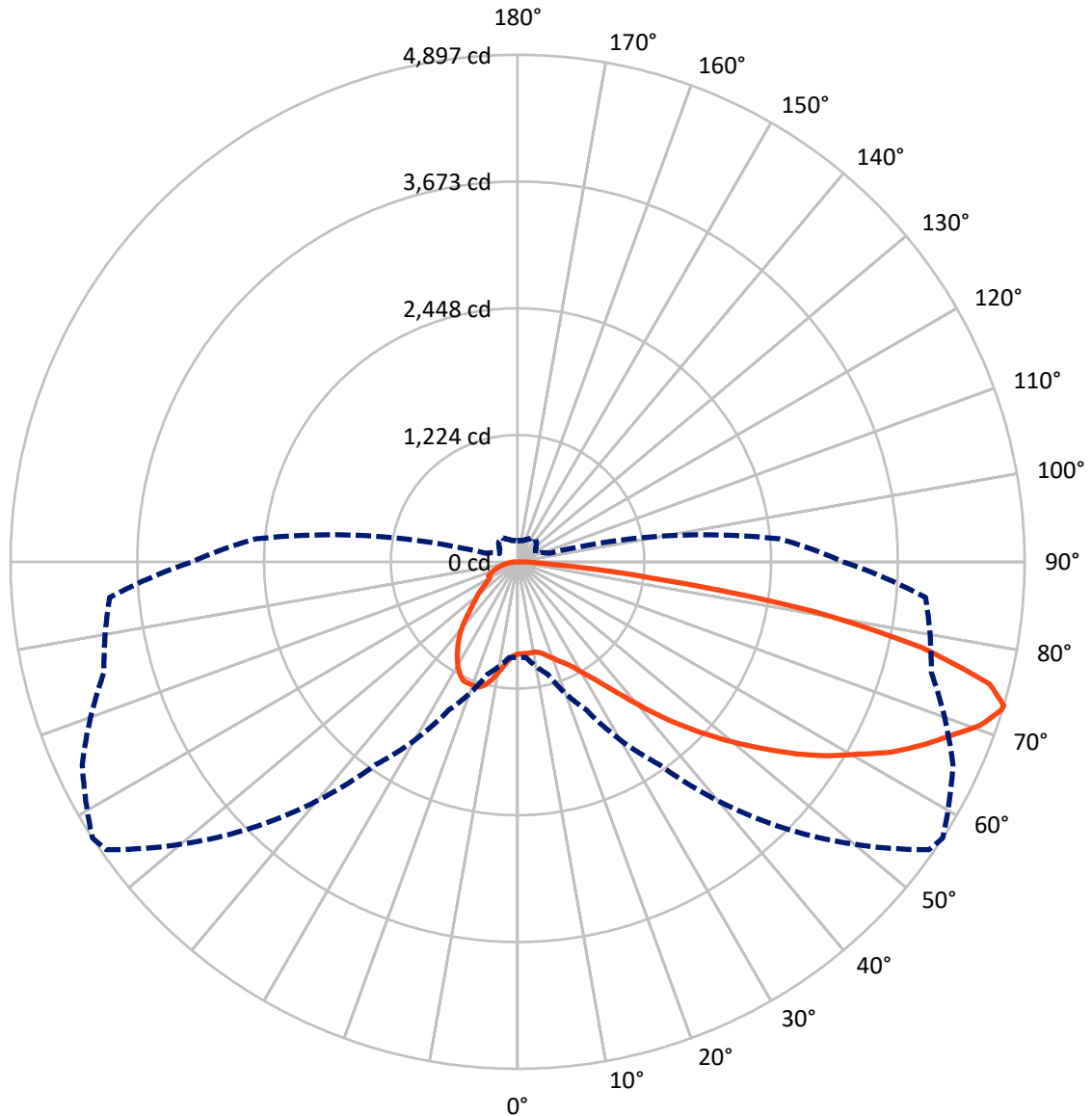
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.6 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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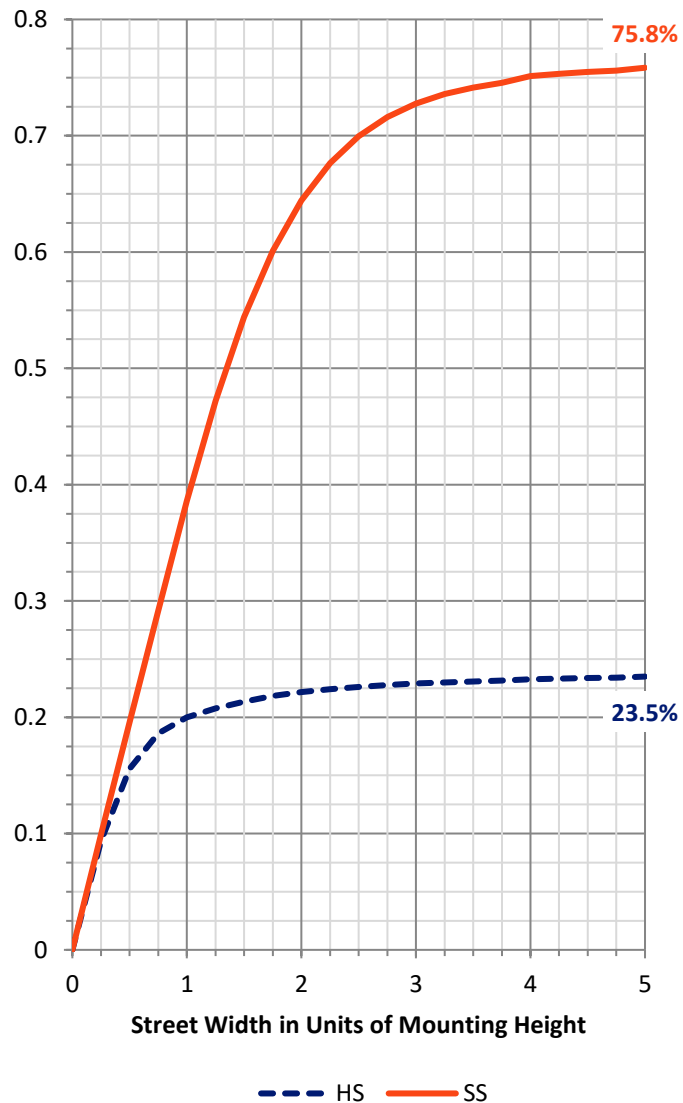
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2110.6	0.0	2110.6
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	6736.4	0.0	6736.4
	% Fixture	76.1	0.0	76.1
Total	Lumens	8847.0	0.0	8847.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.9	1.0
10°-20°	292.7	3.3
20°-30°	540.3	6.1
30°-40°	834.3	9.4
40°-50°	1255.8	14.2
50°-60°	1838.0	20.8
60°-70°	2170.6	24.5
70°-80°	1554.0	17.6
80°-90°	272.3	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°	8847.0	100.0
0°-180°	8847.0	100.0

Coefficient of Utilization

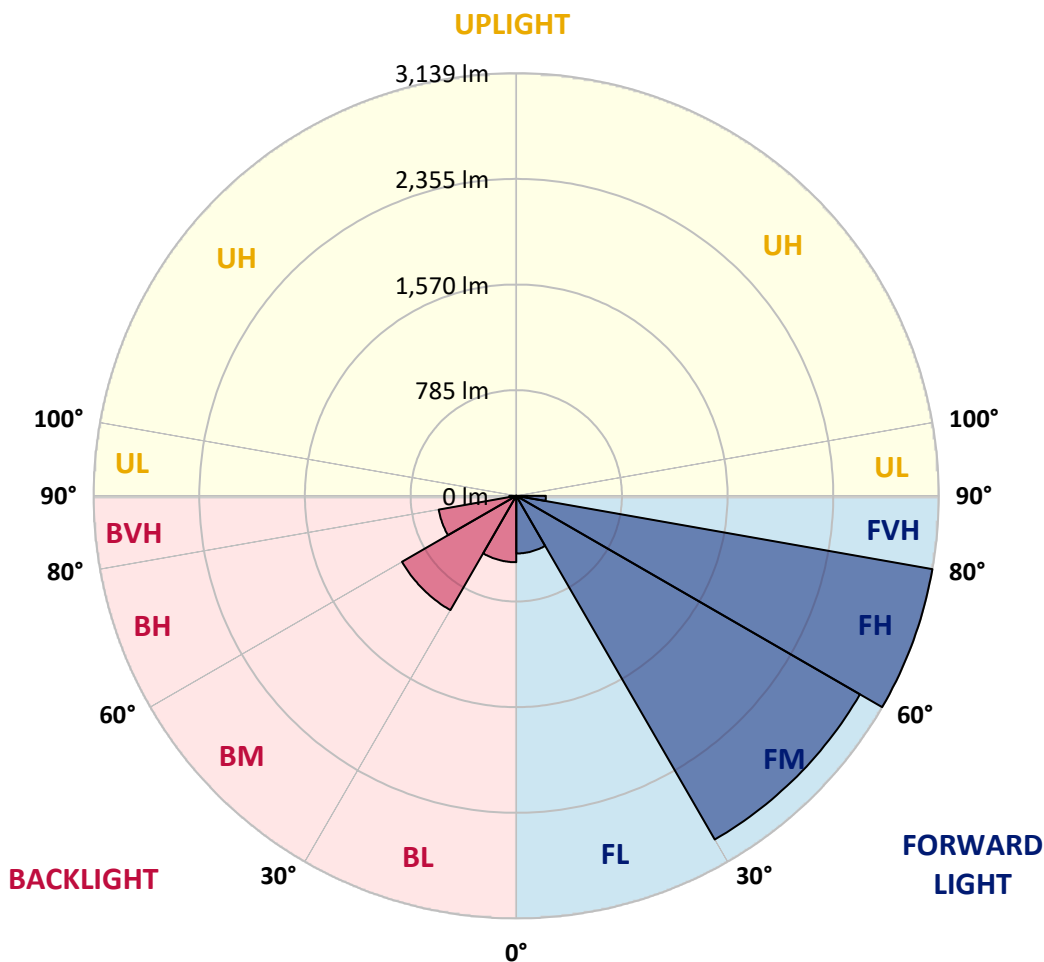


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	428.7	4.8			
FM (30°-60°)	2948.1	33.3			
FH (60°-80°)	3139.4	35.5			G2/5000
FVH (80°-90°)	220.3	2.5			G2/225
BL (0°-30°)	493.3	5.6	B1/500		
BM (30°-60°)	980.1	11.1	B1/1000		
BH (60°-80°)	585.2	6.6	B2/1000		G2/1000
BVH (80°-90°)	52.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	891.3	891.3	891.3	891.3	891.3	891.3	891.3	891.3	891.3	891.3	891.3
2.5°	880.5	884.8	882.7	884.8	891.3	887.0	887.0	889.2	891.3	889.2	893.5
5°	843.6	845.8	850.1	858.8	874.0	878.3	889.2	889.2	893.5	897.8	904.4
7.5°	782.9	787.2	795.9	804.6	830.6	856.6	884.8	889.2	904.4	915.2	919.5
10°	772.1	776.4	778.6	791.6	817.6	843.6	878.3	887.0	915.2	932.5	952.1
12.5°	761.2	765.6	772.1	789.4	821.9	850.1	887.0	895.7	930.4	965.1	988.9
15°	769.9	772.1	778.6	795.9	828.4	867.5	915.2	921.7	960.7	1004.1	1041.0
17.5°	791.6	793.7	791.6	806.8	837.1	882.7	947.7	958.6	1006.3	1049.7	1086.5
20°	841.5	843.6	835.0	835.0	856.6	902.2	982.4	997.6	1056.2	1103.9	1140.7
22.5°	949.9	945.6	923.9	895.7	895.7	932.5	1021.5	1043.1	1116.9	1155.9	1188.5
25°	1103.9	1103.9	1069.2	1017.1	982.4	978.1	1067.0	1090.9	1177.6	1225.3	1244.8
27.5°	1290.4	1292.6	1236.2	1166.8	1099.5	1067.0	1132.1	1155.9	1253.5	1303.4	1309.9
30°	1455.2	1457.4	1401.0	1335.9	1253.5	1181.9	1218.8	1244.8	1357.6	1396.6	1375.0
32.5°	1620.0	1622.2	1583.2	1494.2	1407.5	1318.6	1329.4	1344.6	1459.5	1496.4	1461.7
35°	1763.2	1769.7	1730.6	1663.4	1572.3	1492.1	1472.6	1474.7	1578.8	1602.7	1557.1
37.5°	1908.5	1908.5	1884.6	1821.7	1743.6	1654.7	1628.7	1635.2	1728.5	1752.3	1687.3
40°	2092.8	2101.5	2088.5	2010.4	1921.5	1847.7	1821.7	1830.4	1932.3	1919.3	1849.9
42.5°	2316.2	2335.7	2314.0	2229.4	2134.0	2051.6	2051.6	2051.6	2138.3	2140.5	2036.4
45°	2602.4	2602.4	2580.8	2507.0	2381.2	2298.8	2270.6	2277.1	2353.0	2361.7	2240.3
47.5°	2841.0	2862.7	2838.8	2784.6	2684.9	2606.8	2517.9	2507.0	2569.9	2569.9	2465.8
50°	3034.0	3073.1	3053.5	3077.4	3005.8	2966.8	2784.6	2754.3	2775.9	2797.6	2682.7
52.5°	3194.5	3224.9	3218.4	3287.8	3322.5	3344.1	3055.7	3008.0	3025.3	3023.2	2919.1
55°	3205.4	3216.2	3313.8	3469.9	3606.6	3708.5	3329.0	3276.9	3259.6	3250.9	3170.7
57.5°	3142.5	3149.0	3344.1	3528.5	3825.6	3942.7	3587.0	3535.0	3511.1	3480.8	3448.2
60°	2990.6	3023.2	3279.1	3563.2	3955.7	4124.9	3827.8	3773.6	3756.2	3691.1	3764.9
62.5°	2797.6	2812.8	3068.7	3491.6	3973.1	4203.0	4081.5	4049.0	3994.8	3901.5	4046.8
65°	2524.4	2522.2	2747.8	3281.3	3884.2	4242.0	4296.2	4278.9	4211.6	4051.1	4298.4
67.5°	2073.3	2123.2	2344.4	2908.2	3669.5	4281.0	4515.3	4493.6	4387.3	4185.6	4417.7
70°	1581.0	1611.4	1862.9	2348.7	3242.2	4174.8	4730.0	4736.5	4543.4	4213.8	4365.6
72.5°	1008.4	1060.5	1260.0	1711.1	2595.9	3780.1	4857.9	4888.3	4630.2	4174.8	4042.5
73°	923.9	928.2	1123.4	1583.2	2394.3	3639.1	4849.2	4896.9	4638.9	4135.7	3953.6
75°	550.9	574.7	691.8	1051.8	1708.9	2923.4	4615.0	4710.4	4593.3	3962.2	3465.6
77.5°	258.1	275.4	340.5	555.2	930.4	1758.8	3879.8	3992.6	4070.7	3467.8	2641.5
80°	136.6	138.8	167.0	279.8	498.8	724.3	2704.4	2890.9	3001.5	2611.1	1776.2
82.5°	114.9	114.9	130.1	180.0	318.8	281.9	1114.7	1327.2	1626.5	1286.0	698.3
85°	93.3	95.4	130.1	134.5	227.7	145.3	266.8	334.0	631.1	568.2	78.1
87.5°	30.4	34.7	73.7	95.4	121.4	56.4	67.2	73.7	73.7	108.4	26.0
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°	891.3	891.3	891.3	891.3	891.3	891.3	891.3	891.3	891.3	891.3	891.3
2.5°	895.7	895.7	897.8	900.0	904.4	904.4	908.7	910.9	915.2	917.4	910.9
5°	904.4	908.7	913.0	926.0	941.2	954.2	967.2	978.1	988.9	995.4	993.3
7.5°	928.2	934.7	952.1	975.9	1006.3	1025.8	1045.3	1064.8	1073.5	1077.8	1077.8
10°	960.7	973.7	1006.3	1045.3	1080.0	1110.4	1125.6	1138.6	1142.9	1147.2	1142.9
12.5°	1006.3	1023.6	1073.5	1123.4	1162.4	1177.6	1175.4	1158.1	1134.2	1129.9	1125.6
15°	1064.8	1086.5	1142.9	1201.5	1231.8	1212.3	1162.4	1145.1	1140.7	1153.8	1149.4
17.5°	1114.7	1140.7	1210.1	1270.9	1264.4	1197.1	1181.9	1190.6	1186.3	1188.5	1188.5
20°	1162.4	1199.3	1273.0	1314.2	1257.9	1214.5	1201.5	1190.6	1177.6	1181.9	1177.6
22.5°	1223.2	1249.2	1333.8	1335.9	1249.2	1214.5	1186.3	1164.6	1160.3	1162.4	1164.6
25°	1270.9	1312.1	1385.8	1320.7	1249.2	1179.8	1140.7	1136.4	1138.6	1151.6	1147.2
27.5°	1335.9	1377.1	1427.0	1312.1	1197.1	1123.4	1108.2	1106.0	1090.9	1095.2	1095.2
30°	1396.6	1446.5	1448.7	1312.1	1132.1	1075.7	1054.0	1015.0	982.4	988.9	986.8
32.5°	1479.1	1522.4	1453.0	1260.0	1058.3	1012.8	954.2	893.5	878.3	887.0	889.2
35°	1574.5	1609.2	1457.4	1173.3	984.6	923.9	817.6	782.9	780.7	787.2	793.7
37.5°	1700.3	1719.8	1489.9	1073.5	913.0	785.1	702.7	694.0	674.5	661.5	663.6
40°	1854.2	1830.4	1552.8	984.6	828.4	659.3	624.6	600.7	563.9	527.0	533.5
42.5°	2025.6	1958.3	1572.3	913.0	713.5	581.2	548.7	511.8	466.3	427.2	425.1
45°	2209.9	2101.5	1555.0	856.6	598.6	522.7	488.0	444.6	390.4	357.8	357.8
47.5°	2429.0	2238.1	1500.7	811.1	518.3	470.6	427.2	383.9	347.0	316.6	316.6
50°	2669.7	2396.4	1461.7	730.9	461.9	420.7	377.4	342.7	314.5	290.6	290.6
52.5°	2923.4	2546.1	1429.2	613.7	412.1	375.2	344.8	316.6	292.8	262.4	258.1
55°	3181.5	2689.2	1444.4	501.0	366.5	342.7	323.1	294.9	286.3	279.8	275.4
57.5°	3450.4	2845.3	1481.2	409.9	327.5	325.3	316.6	336.1	355.7	342.7	336.1
60°	3660.8	2966.8	1485.6	344.8	303.6	342.7	386.0	392.5	340.5	310.1	308.0
62.5°	3827.8	3081.7	1383.6	299.3	310.1	403.4	412.1	347.0	294.9	281.9	281.9
65°	3914.5	3122.9	1112.5	273.3	323.1	386.0	373.0	312.3	275.4	273.3	273.3
67.5°	3871.1	3090.4	778.6	245.1	286.3	334.0	334.0	286.3	253.7	264.6	260.2
70°	3662.9	2929.9	514.0	221.2	251.6	301.5	310.1	266.8	236.4	242.9	236.4
72.5°	3229.2	2643.7	338.3	195.2	216.9	266.8	288.4	245.1	216.9	214.7	208.2
73°	3144.6	2535.2	318.8	190.8	210.4	258.1	281.9	240.7	212.5	206.0	201.7
75°	2667.5	2114.5	240.7	171.3	186.5	232.1	262.4	225.5	195.2	186.5	182.2
77.5°	1943.2	1466.0	180.0	145.3	156.1	201.7	232.1	206.0	173.5	162.7	160.5
80°	1212.3	798.1	134.5	117.1	123.6	169.2	203.9	184.3	149.6	136.6	134.5
82.5°	474.9	260.2	93.3	86.7	91.1	128.0	171.3	160.5	125.8	114.9	108.4
85°	78.1	88.9	60.7	58.6	58.6	91.1	130.1	123.6	84.6	73.7	65.1
87.5°	21.7	41.2	23.9	21.7	21.7	39.0	71.6	56.4	34.7	28.2	26.0
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)