

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: P595339

Luminaire Tested: **IST-PA1E-830-U-T3**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595339  
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-PA1E-830-U-T3  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 80 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8060 lumens  
Efficiency: N/A  
Efficacy: 98.9 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

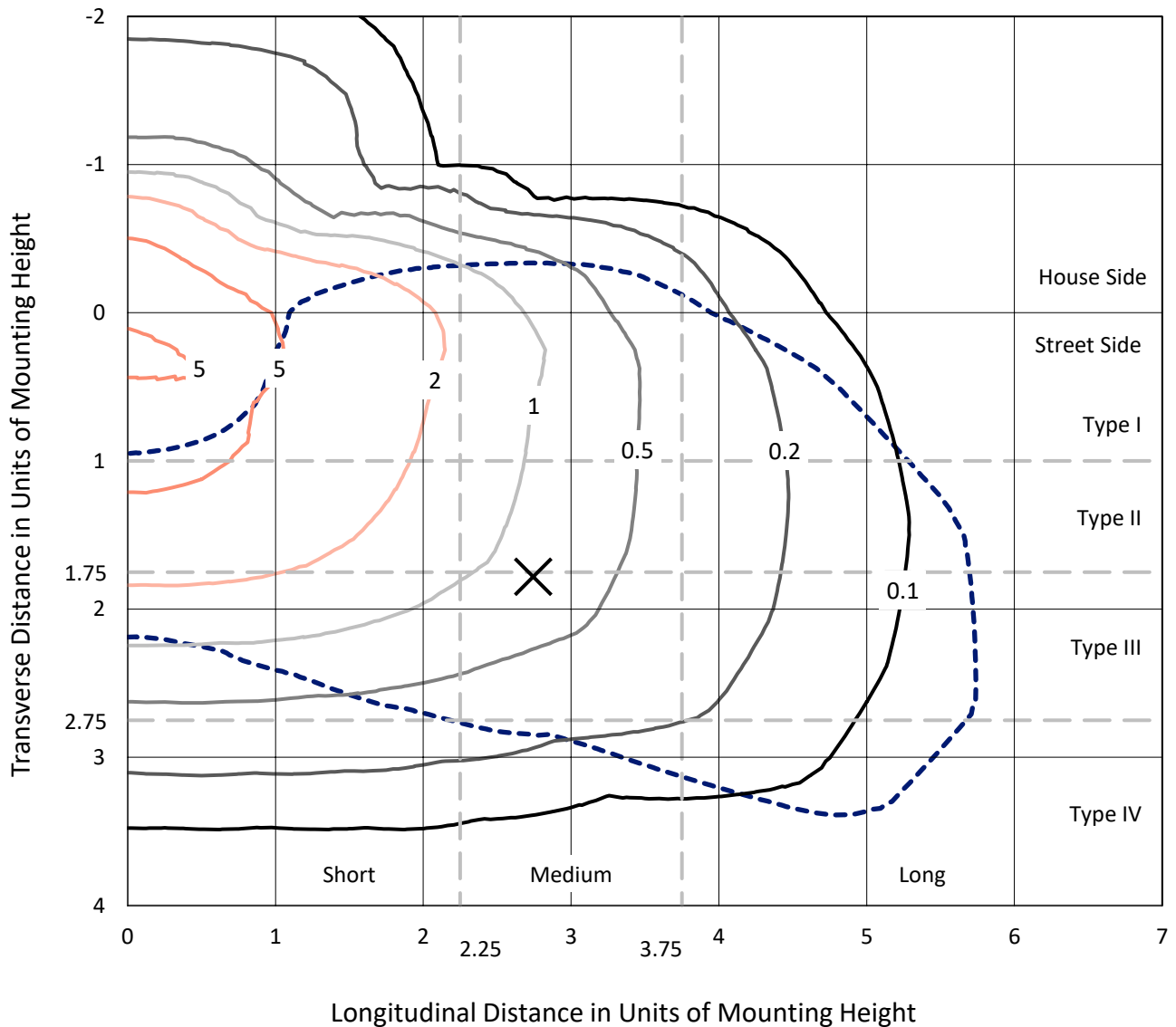
Input Watts (W): 81.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

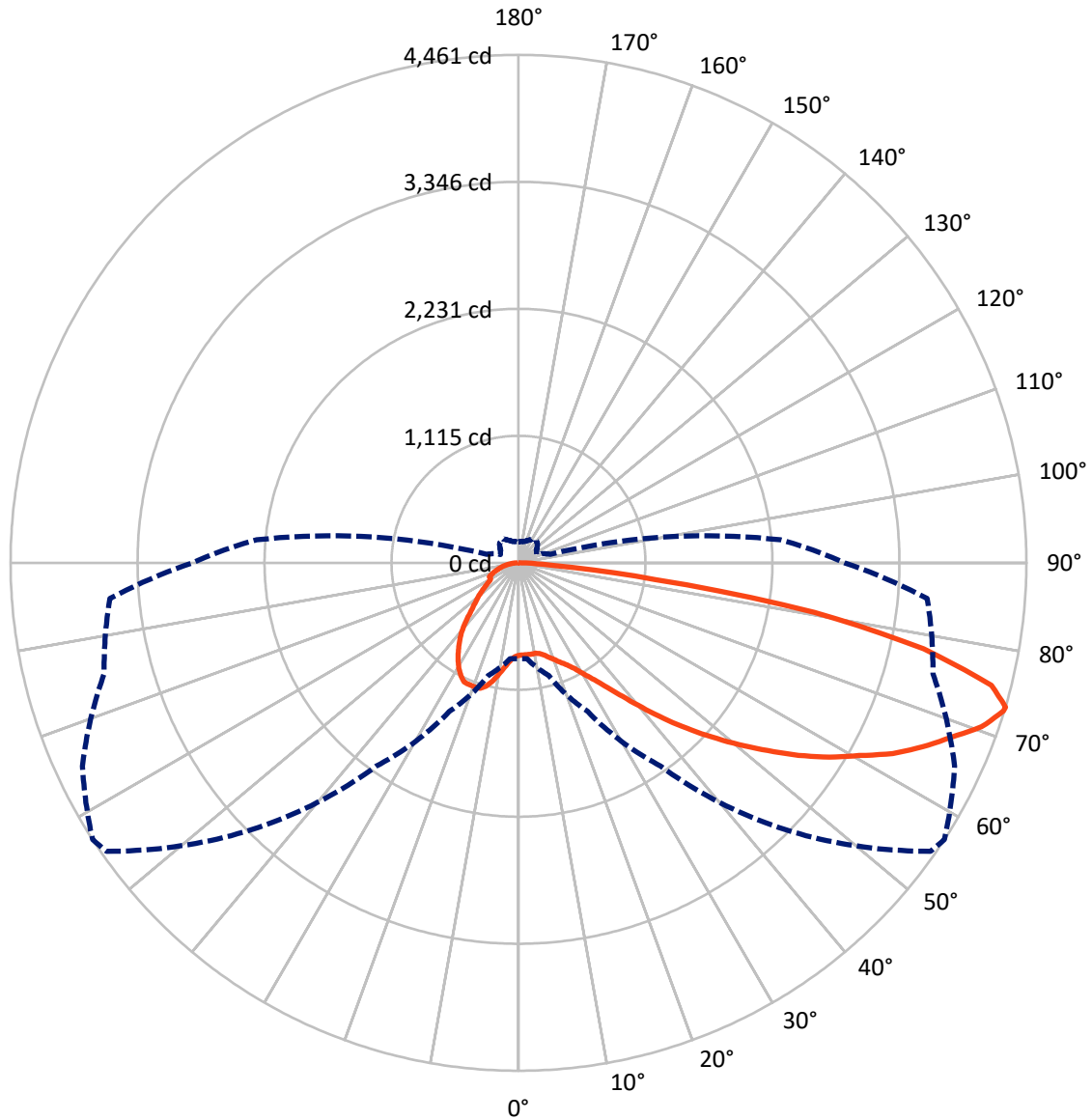
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.9 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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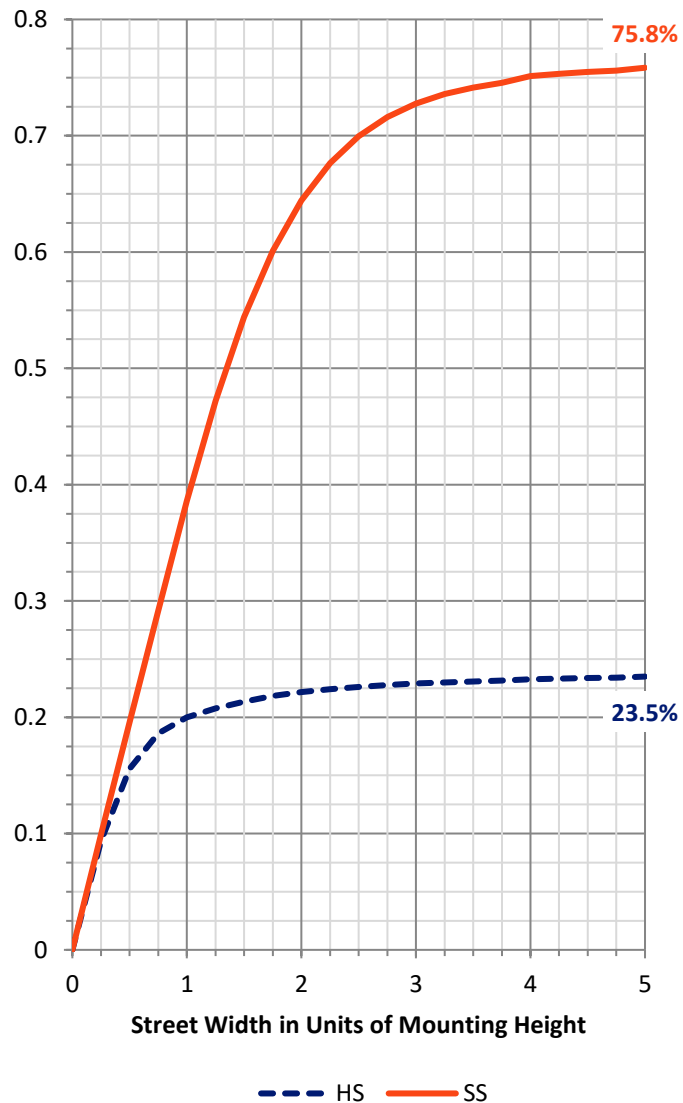
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1922.8	0.0	1922.8
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	6137.2	0.0	6137.2
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	8060.0	0.0	8060.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.0	1.0
10°-20°	266.7	3.3
20°-30°	492.2	6.1
30°-40°	760.1	9.4
40°-50°	1144.1	14.2
50°-60°	1674.5	20.8
60°-70°	1977.5	24.5
70°-80°	1415.8	17.6
80°-90°	248.1	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°	8060.0	100.0
0°-180°	8060.0	100.0

**Coefficient of Utilization**

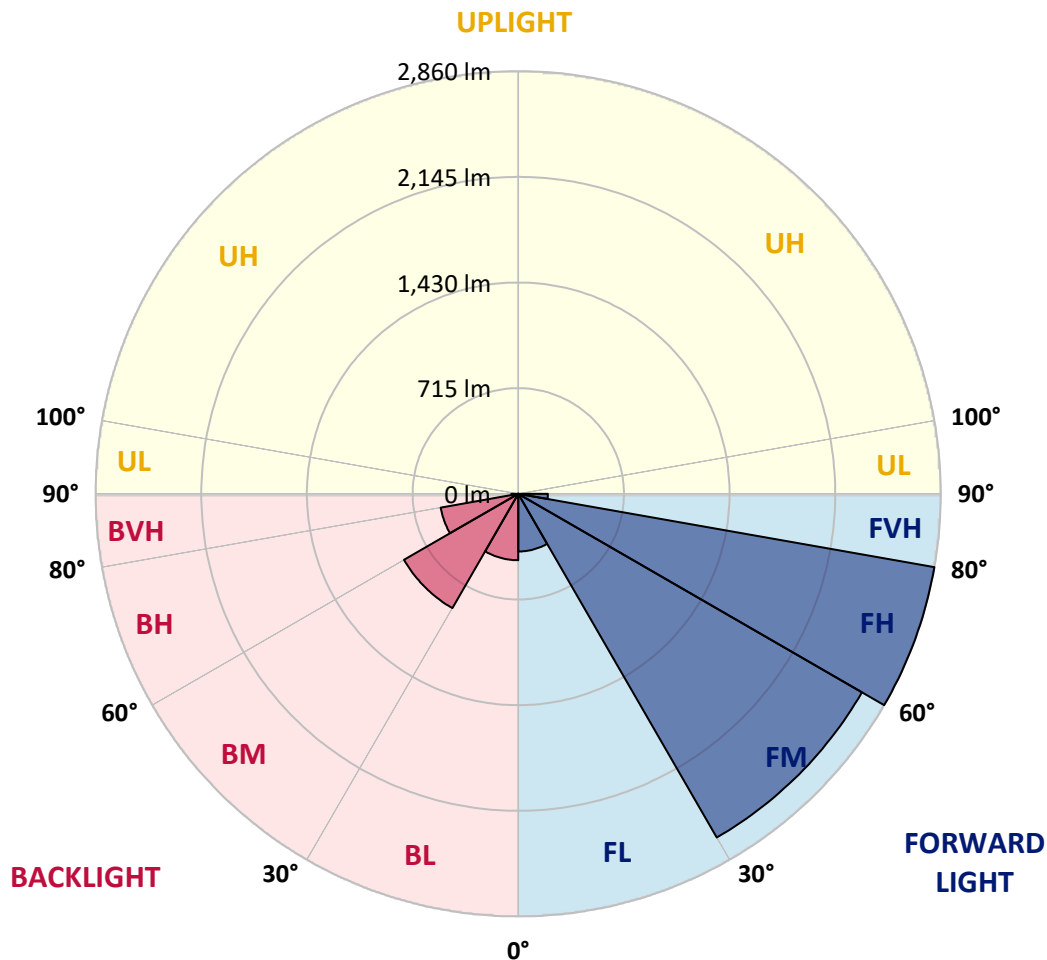


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	390.5	4.8			
FM (30°-60°)	2685.8	33.3			
FH (60°-80°)	2860.1	35.5			G2/5000
FVH (80°-90°)	200.7	2.5			G2/225
BL (0°-30°)	449.4	5.6	B1/500		
BM (30°-60°)	892.9	11.1	B1/1000		
BH (60°-80°)	533.1	6.6	B2/1000		G2/1000
BVH (80°-90°)	47.4	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°	812.0	812.0	812.0	812.0	812.0	812.0	812.0	812.0	812.0	812.0	812.0
2.5°	802.2	806.1	804.1	806.1	812.0	808.1	808.1	810.1	812.0	810.1	814.0
5°	768.6	770.6	774.5	782.4	796.2	800.2	810.1	810.1	814.0	818.0	823.9
7.5°	713.3	717.2	725.1	733.0	756.7	780.4	806.1	810.1	823.9	833.8	837.7
10°	703.4	707.3	709.3	721.2	744.9	768.6	800.2	808.1	833.8	849.6	867.4
12.5°	693.5	697.5	703.4	719.2	748.8	774.5	808.1	816.0	847.6	879.2	901.0
15°	701.4	703.4	709.3	725.1	754.8	790.3	833.8	839.7	875.3	914.8	948.4
17.5°	721.2	723.1	721.2	735.0	762.7	804.1	863.4	873.3	916.8	956.3	989.9
20°	766.6	768.6	760.7	760.7	780.4	821.9	895.0	908.9	962.2	1005.7	1039.3
22.5°	865.4	861.4	841.7	816.0	816.0	849.6	930.6	950.4	1017.5	1053.1	1082.7
25°	1005.7	1005.7	974.1	926.6	895.0	891.1	972.1	993.8	1072.9	1116.3	1134.1
27.5°	1175.6	1177.6	1126.2	1063.0	1001.7	972.1	1031.4	1053.1	1142.0	1187.4	1193.4
30°	1325.8	1327.7	1276.4	1217.1	1142.0	1076.8	1110.4	1134.1	1236.8	1272.4	1252.6
32.5°	1475.9	1477.9	1442.3	1361.3	1282.3	1201.3	1211.2	1225.0	1329.7	1363.3	1331.7
35°	1606.3	1612.2	1576.7	1515.4	1432.4	1359.3	1341.6	1343.5	1438.4	1460.1	1418.6
37.5°	1738.7	1738.7	1717.0	1659.7	1588.5	1507.5	1483.8	1489.7	1574.7	1596.4	1537.2
40°	1906.6	1914.5	1902.7	1831.6	1750.5	1683.4	1659.7	1667.6	1760.4	1748.6	1685.3
42.5°	2110.1	2127.9	2108.2	2031.1	1944.2	1869.1	1869.1	1869.1	1948.1	1950.1	1855.3
45°	2370.9	2370.9	2351.2	2284.0	2169.4	2094.3	2068.6	2074.6	2143.7	2151.6	2041.0
47.5°	2588.3	2608.0	2586.3	2536.9	2446.0	2374.9	2293.9	2284.0	2341.3	2341.3	2246.5
50°	2764.1	2799.7	2781.9	2803.6	2738.4	2702.9	2536.9	2509.2	2529.0	2548.8	2444.0
52.5°	2910.3	2938.0	2932.1	2995.3	3026.9	3046.7	2783.9	2740.4	2756.2	2754.2	2659.4
55°	2920.2	2930.1	3019.0	3161.3	3285.7	3378.6	3032.8	2985.4	2969.6	2961.7	2888.6
57.5°	2862.9	2868.8	3046.7	3214.6	3485.3	3592.0	3268.0	3220.5	3198.8	3171.1	3141.5
60°	2724.6	2754.2	2987.4	3246.2	3603.8	3757.9	3487.3	3437.9	3422.1	3362.8	3430.0
62.5°	2548.8	2562.6	2795.7	3181.0	3619.6	3829.1	3718.4	3688.8	3639.4	3554.4	3686.8
65°	2299.8	2297.8	2503.3	2989.4	3538.6	3864.6	3914.0	3898.2	3837.0	3690.8	3916.0
67.5°	1888.9	1934.3	2135.8	2649.5	3343.0	3900.2	4113.6	4093.8	3997.0	3813.3	4024.7
70°	1440.3	1468.0	1697.2	2139.8	2953.8	3803.4	4309.2	4315.1	4139.3	3839.0	3977.3
72.5°	918.7	966.2	1147.9	1558.9	2365.0	3443.8	4425.8	4453.4	4218.3	3803.4	3682.9
73°	841.7	845.6	1023.5	1442.3	2181.3	3315.4	4417.9	4461.3	4226.2	3767.8	3601.9
75°	501.8	523.6	630.3	958.3	1556.9	2663.4	4204.5	4291.4	4184.7	3609.8	3157.3
77.5°	235.1	250.9	310.2	505.8	847.6	1602.4	3534.7	3637.4	3708.6	3159.3	2406.5
80°	124.5	126.5	152.1	254.9	454.4	659.9	2463.8	2633.7	2734.5	2378.8	1618.2
82.5°	104.7	104.7	118.5	164.0	290.4	256.9	1015.6	1209.2	1481.8	1171.6	636.2
85°	85.0	86.9	118.5	122.5	207.5	132.4	243.0	304.3	575.0	517.7	71.1
87.5°	27.7	31.6	67.2	86.9	110.6	51.4	61.2	67.2	67.2	98.8	23.7
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°	812.0	812.0	812.0	812.0	812.0	812.0	812.0	812.0	812.0	812.0	812.0
2.5°	816.0	816.0	818.0	820.0	823.9	823.9	827.9	829.8	833.8	835.8	829.8
5°	823.9	827.9	831.8	843.7	857.5	869.3	881.2	891.1	901.0	906.9	904.9
7.5°	845.6	851.6	867.4	889.1	916.8	934.5	952.3	970.1	978.0	982.0	982.0
10°	875.3	887.1	916.8	952.3	983.9	1011.6	1025.4	1037.3	1041.2	1045.2	1041.2
12.5°	916.8	932.6	978.0	1023.5	1059.0	1072.9	1070.9	1055.1	1033.3	1029.4	1025.4
15°	970.1	989.9	1041.2	1094.6	1122.2	1104.5	1059.0	1043.2	1039.3	1051.1	1047.2
17.5°	1015.6	1039.3	1102.5	1157.8	1151.9	1090.6	1076.8	1084.7	1080.8	1082.7	1082.7
20°	1059.0	1092.6	1159.8	1197.3	1146.0	1106.4	1094.6	1084.7	1072.9	1076.8	1072.9
22.5°	1114.3	1138.1	1215.1	1217.1	1138.1	1106.4	1080.8	1061.0	1057.0	1059.0	1061.0
25°	1157.8	1195.4	1262.5	1203.3	1138.1	1074.8	1039.3	1035.3	1037.3	1049.1	1045.2
27.5°	1217.1	1254.6	1300.1	1195.4	1090.6	1023.5	1009.6	1007.7	993.8	997.8	997.8
30°	1272.4	1317.8	1319.8	1195.4	1031.4	980.0	960.2	924.7	895.0	901.0	899.0
32.5°	1347.5	1387.0	1323.8	1147.9	964.2	922.7	869.3	814.0	800.2	808.1	810.1
35°	1434.4	1466.0	1327.7	1068.9	897.0	841.7	744.9	713.3	711.3	717.2	723.1
37.5°	1549.0	1566.8	1357.4	978.0	831.8	715.2	640.2	632.3	614.5	602.6	604.6
40°	1689.3	1667.6	1414.7	897.0	754.8	600.6	569.0	547.3	513.7	480.1	486.0
42.5°	1845.4	1784.1	1432.4	831.8	650.0	529.5	499.9	466.3	424.8	389.2	387.3
45°	2013.3	1914.5	1416.6	780.4	545.3	476.2	444.6	405.0	355.6	326.0	326.0
47.5°	2212.9	2039.0	1367.2	738.9	472.2	428.7	389.2	349.7	316.1	288.5	288.5
50°	2432.2	2183.2	1331.7	665.8	420.8	383.3	343.8	312.2	286.5	264.8	264.8
52.5°	2663.4	2319.6	1302.0	559.1	375.4	341.8	314.2	288.5	266.7	239.1	235.1
55°	2898.5	2450.0	1315.9	456.4	333.9	312.2	294.4	268.7	260.8	254.9	250.9
57.5°	3143.5	2592.2	1349.5	373.4	298.3	296.4	288.5	306.2	324.0	312.2	306.2
60°	3335.1	2702.9	1353.4	314.2	276.6	312.2	351.7	357.6	310.2	282.5	280.6
62.5°	3487.3	2807.6	1260.6	272.7	282.5	367.5	375.4	316.1	268.7	256.9	256.9
65°	3566.3	2845.1	1013.6	248.9	294.4	351.7	339.8	284.5	250.9	248.9	248.9
67.5°	3526.8	2815.5	709.3	223.3	260.8	304.3	304.3	260.8	231.2	241.0	237.1
70°	3337.1	2669.3	468.3	201.5	229.2	274.6	282.5	243.0	215.4	221.3	215.4
72.5°	2941.9	2408.5	308.2	177.8	197.6	243.0	262.8	223.3	197.6	195.6	189.7
73°	2864.9	2309.7	290.4	173.9	191.7	235.1	256.9	219.3	193.6	187.7	183.7
75°	2430.2	1926.4	219.3	156.1	169.9	211.4	239.1	205.5	177.8	169.9	166.0
77.5°	1770.3	1335.6	164.0	132.4	142.3	183.7	211.4	187.7	158.1	148.2	146.2
80°	1104.5	727.1	122.5	106.7	112.6	154.1	185.7	167.9	136.3	124.5	122.5
82.5°	432.7	237.1	85.0	79.0	83.0	116.6	156.1	146.2	114.6	104.7	98.8
85°	71.1	81.0	55.3	53.3	53.3	83.0	118.5	112.6	77.1	67.2	59.3
87.5°	19.8	37.5	21.7	19.8	19.8	35.6	65.2	51.4	31.6	25.7	23.7
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)