

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: P595258

Luminaire Tested: **IST-PA1D-830-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595258
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-PA1D-830-U-T3
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6544 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

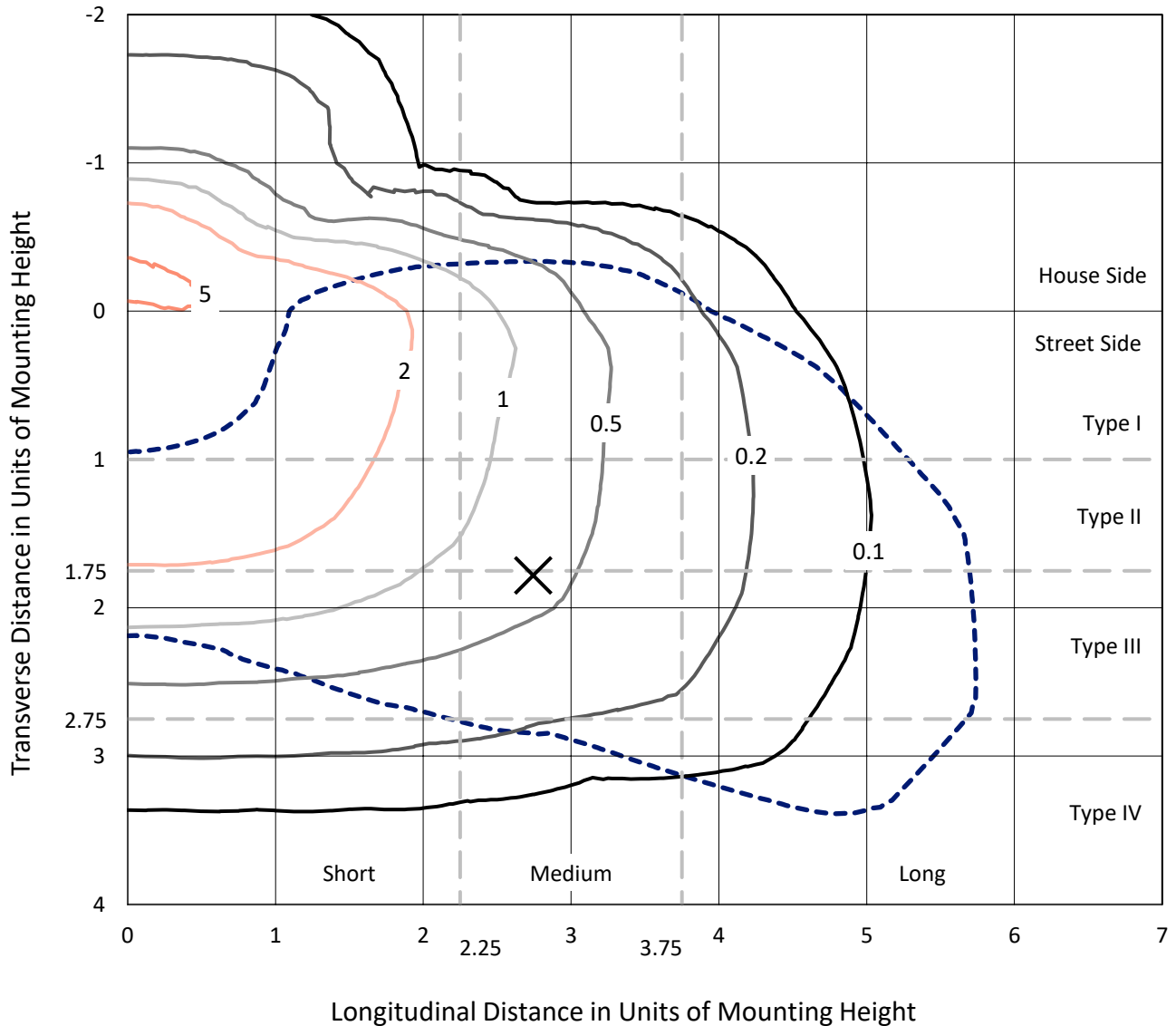
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

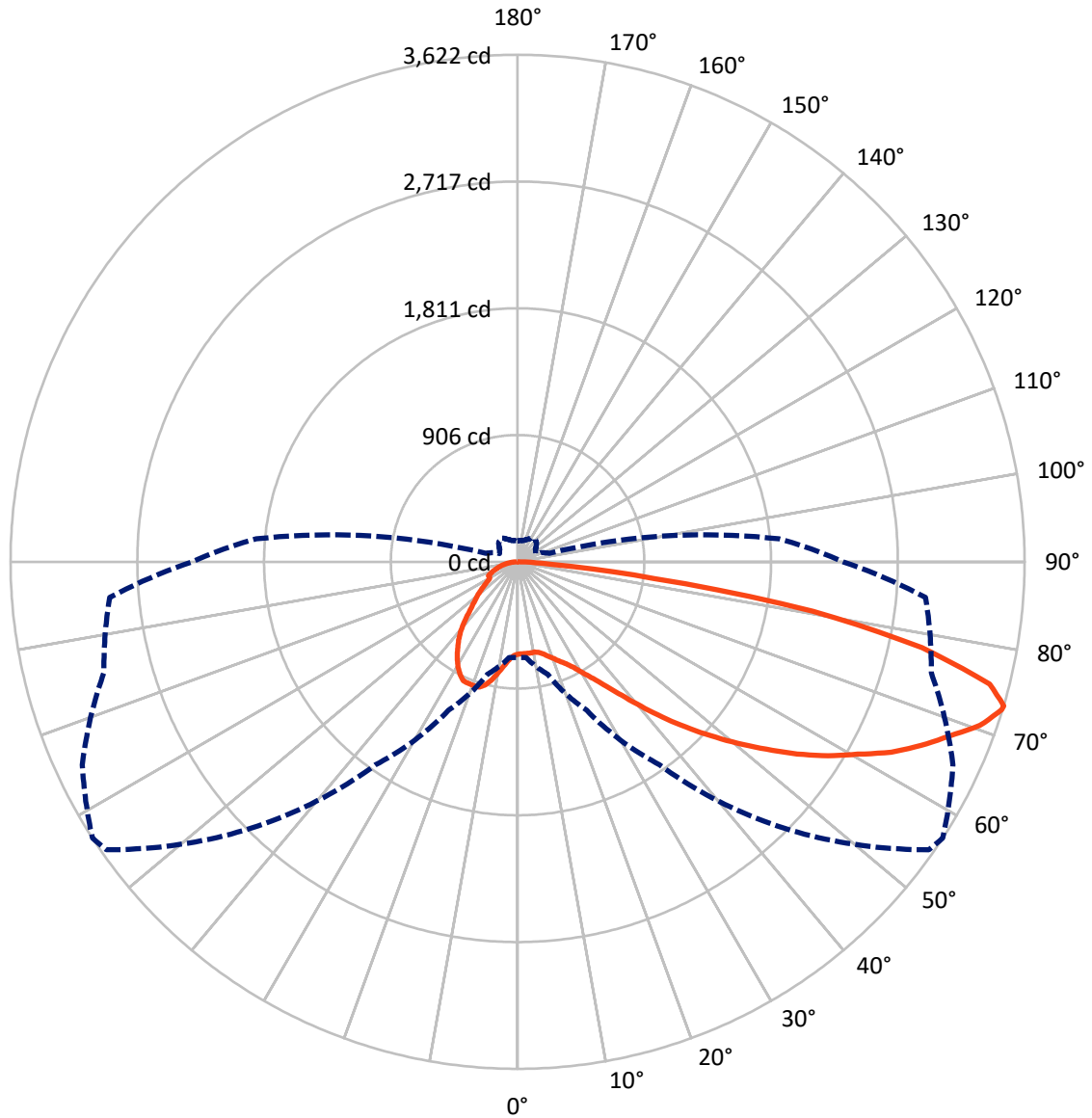
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.6 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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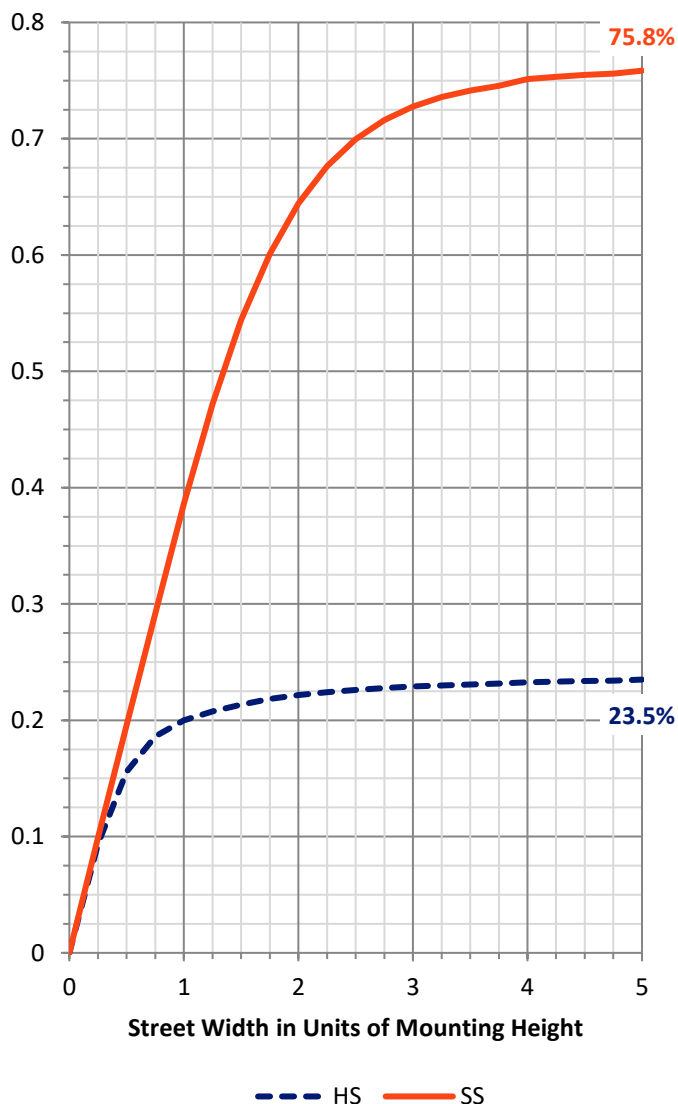
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1561.2	0.0	1561.2
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	4982.8	0.0	4982.8
	% Fixture	76.1	0.0	76.1
Total	Lumens	6544.0	0.0	6544.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	1.0
10°-20°	216.5	3.3
20°-30°	399.7	6.1
30°-40°	617.1	9.4
40°-50°	928.9	14.2
50°-60°	1359.6	20.8
60°-70°	1605.5	24.5
70°-80°	1149.5	17.6
80°-90°	201.4	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°	6544.0	100.0
0°-180°	6544.0	100.0

Coefficient of Utilization

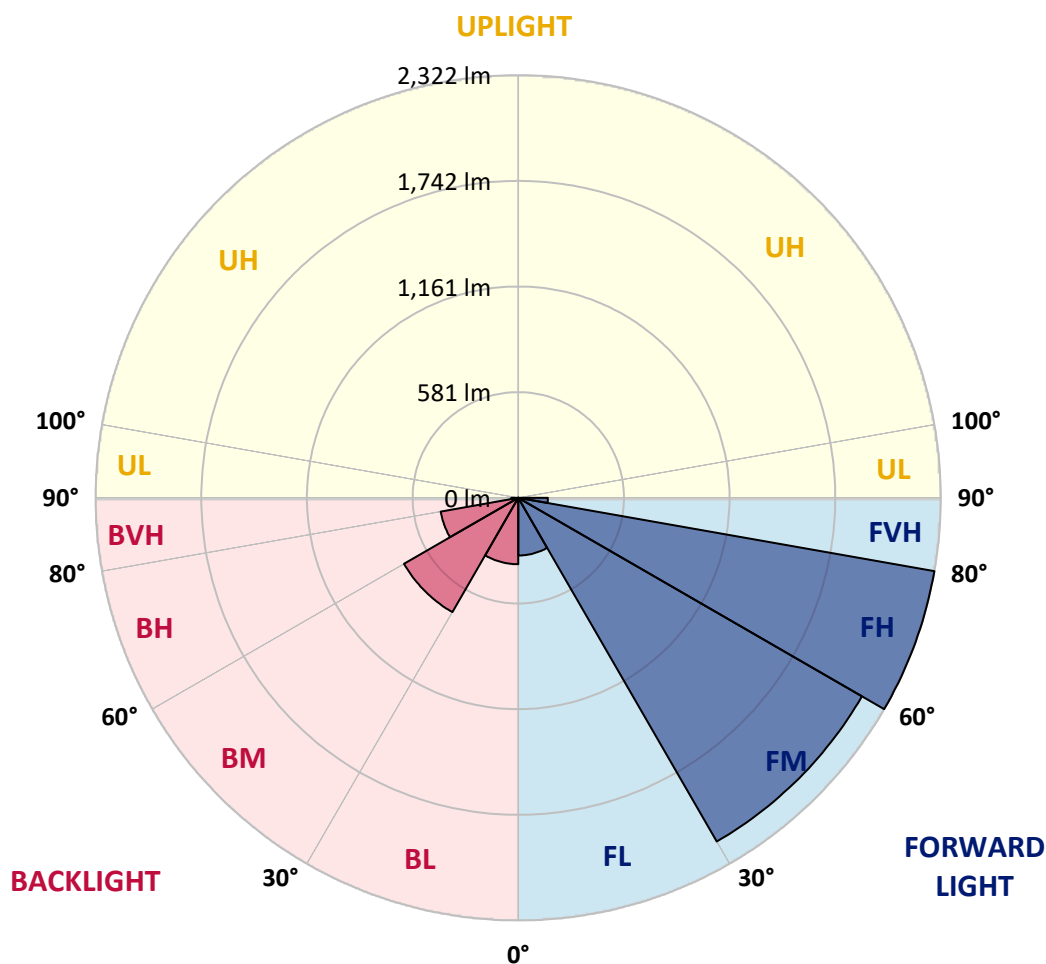


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	317.1	4.8			
FM (30°-60°)	2180.6	33.3			
FH (60°-80°)	2322.2	35.5			G2/5000
FVH (80°-90°)	162.9	2.5			G2/225
BL (0°-30°)	364.9	5.6	B1/500		
BM (30°-60°)	725.0	11.1	B1/1000		
BH (60°-80°)	432.9	6.6	B1/500		G1/500
BVH (80°-90°)	38.5	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	659.3	659.3	659.3	659.3	659.3	659.3	659.3	659.3	659.3	659.3	659.3
2.5°	651.3	654.5	652.9	654.5	659.3	656.1	656.1	657.7	659.3	657.7	660.9
5°	624.0	625.6	628.8	635.2	646.5	649.7	657.7	657.7	660.9	664.1	668.9
7.5°	579.1	582.3	588.7	595.1	614.4	633.6	654.5	657.7	668.9	677.0	680.2
10°	571.1	574.3	575.9	585.5	604.8	624.0	649.7	656.1	677.0	689.8	704.2
12.5°	563.1	566.3	571.1	583.9	608.0	628.8	656.1	662.5	688.2	713.9	731.5
15°	569.5	571.1	575.9	588.7	612.8	641.7	677.0	681.8	710.6	742.7	770.0
17.5°	585.5	587.1	585.5	596.7	619.2	652.9	701.0	709.0	744.3	776.4	803.7
20°	622.4	624.0	617.6	617.6	633.6	667.3	726.7	737.9	781.2	816.5	843.8
22.5°	702.6	699.4	683.4	662.5	662.5	689.8	755.6	771.6	826.1	855.0	879.1
25°	816.5	816.5	790.9	752.4	726.7	723.5	789.2	806.9	871.1	906.4	920.8
27.5°	954.5	956.1	914.4	863.0	813.3	789.2	837.4	855.0	927.2	964.1	968.9
30°	1076.4	1078.0	1036.3	988.2	927.2	874.3	901.5	920.8	1004.2	1033.1	1017.0
32.5°	1198.3	1199.9	1171.0	1105.3	1041.1	975.3	983.4	994.6	1079.6	1106.9	1081.2
35°	1304.2	1309.0	1280.1	1230.4	1163.0	1103.7	1089.2	1090.8	1167.8	1185.5	1151.8
37.5°	1411.7	1411.7	1394.0	1347.5	1289.7	1224.0	1204.7	1209.5	1278.5	1296.2	1248.0
40°	1548.0	1554.4	1544.8	1487.1	1421.3	1366.7	1347.5	1353.9	1429.3	1419.7	1368.4
42.5°	1713.2	1727.7	1711.6	1649.1	1578.5	1517.5	1517.5	1517.5	1581.7	1583.3	1506.3
45°	1925.0	1925.0	1909.0	1854.4	1761.4	1700.4	1679.6	1684.4	1740.5	1746.9	1657.1
47.5°	2101.5	2117.5	2099.8	2059.7	1986.0	1928.2	1862.4	1854.4	1900.9	1900.9	1823.9
50°	2244.2	2273.1	2258.7	2276.3	2223.4	2194.5	2059.7	2037.3	2053.3	2069.4	1984.3
52.5°	2362.9	2385.4	2380.6	2431.9	2457.6	2473.6	2260.3	2225.0	2237.8	2236.2	2159.2
55°	2371.0	2379.0	2451.2	2566.7	2667.7	2743.1	2462.4	2423.9	2411.1	2404.6	2345.3
57.5°	2324.4	2329.2	2473.6	2610.0	2829.7	2916.4	2653.3	2614.8	2597.1	2574.7	2550.6
60°	2212.1	2236.2	2425.5	2635.6	2926.0	3051.1	2831.3	2791.2	2778.4	2730.3	2784.8
62.5°	2069.4	2080.6	2269.9	2582.7	2938.8	3108.9	3019.0	2995.0	2954.9	2885.9	2993.4
65°	1867.2	1865.6	2032.5	2427.1	2873.1	3137.7	3177.8	3165.0	3115.3	2996.6	3179.5
67.5°	1533.6	1570.5	1734.1	2151.2	2714.2	3166.6	3339.9	3323.8	3245.2	3096.0	3267.7
70°	1169.4	1191.9	1378.0	1737.3	2398.2	3088.0	3498.7	3503.5	3360.7	3116.9	3229.2
72.5°	745.9	784.4	932.0	1265.7	1920.2	2796.1	3593.3	3615.8	3424.9	3088.0	2990.2
73°	683.4	686.6	831.0	1171.0	1771.0	2691.8	3586.9	3622.2	3431.3	3059.1	2924.4
75°	407.5	425.1	511.7	778.0	1264.1	2162.4	3413.7	3484.2	3397.6	2930.8	2563.5
77.5°	190.9	203.7	251.9	410.7	688.2	1301.0	2869.8	2953.3	3011.0	2565.1	1953.9
80°	101.1	102.7	123.5	206.9	369.0	535.8	2000.4	2138.3	2220.2	1931.4	1313.8
82.5°	85.0	85.0	96.2	133.1	235.8	208.5	824.5	981.7	1203.1	951.3	516.5
85°	69.0	70.6	96.2	99.5	168.4	107.5	197.3	247.0	466.8	420.3	57.7
87.5°	22.5	25.7	54.5	70.6	89.8	41.7	49.7	54.5	54.5	80.2	19.2
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°	659.3	659.3	659.3	659.3	659.3	659.3	659.3	659.3	659.3	659.3	659.3
2.5°	662.5	662.5	664.1	665.7	668.9	668.9	672.1	673.7	677.0	678.6	673.7
5°	668.9	672.1	675.4	685.0	696.2	705.8	715.5	723.5	731.5	736.3	734.7
7.5°	686.6	691.4	704.2	721.9	744.3	758.8	773.2	787.6	794.1	797.3	797.3
10°	710.6	720.3	744.3	773.2	798.9	821.3	832.6	842.2	845.4	848.6	845.4
12.5°	744.3	757.2	794.1	831.0	859.8	871.1	869.5	856.6	839.0	835.8	832.6
15°	787.6	803.7	845.4	888.7	911.2	896.7	859.8	847.0	843.8	853.4	850.2
17.5°	824.5	843.8	895.1	940.0	935.2	885.5	874.3	880.7	877.5	879.1	879.1
20°	859.8	887.1	941.6	972.1	930.4	898.3	888.7	880.7	871.1	874.3	871.1
22.5°	904.7	924.0	986.6	988.2	924.0	898.3	877.5	861.4	858.2	859.8	861.4
25°	940.0	970.5	1025.1	976.9	924.0	872.7	843.8	840.6	842.2	851.8	848.6
27.5°	988.2	1018.6	1055.5	970.5	885.5	831.0	819.7	818.1	806.9	810.1	810.1
30°	1033.1	1070.0	1071.6	970.5	837.4	795.7	779.6	750.7	726.7	731.5	729.9
32.5°	1094.0	1126.1	1074.8	932.0	782.8	749.1	705.8	660.9	649.7	656.1	657.7
35°	1164.6	1190.3	1078.0	867.9	728.3	683.4	604.8	579.1	577.5	582.3	587.1
37.5°	1257.7	1272.1	1102.1	794.1	675.4	580.7	519.7	513.3	498.9	489.3	490.9
40°	1371.6	1353.9	1148.6	728.3	612.8	487.7	462.0	444.4	417.1	389.8	394.6
42.5°	1498.3	1448.6	1163.0	675.4	527.8	429.9	405.9	378.6	344.9	316.0	314.4
45°	1634.6	1554.4	1150.2	633.6	442.7	386.6	360.9	328.9	288.7	264.7	264.7
47.5°	1796.7	1655.5	1110.1	600.0	383.4	348.1	316.0	283.9	256.7	234.2	234.2
50°	1974.7	1772.6	1081.2	540.6	341.7	311.2	279.1	253.5	232.6	215.0	215.0
52.5°	2162.4	1883.3	1057.1	454.0	304.8	277.5	255.1	234.2	216.6	194.1	190.9
55°	2353.3	1989.2	1068.4	370.6	271.1	253.5	239.0	218.2	211.7	206.9	203.7
57.5°	2552.2	2104.7	1095.6	303.2	242.2	240.6	234.2	248.6	263.1	253.5	248.6
60°	2707.8	2194.5	1098.9	255.1	224.6	253.5	285.5	290.4	251.9	229.4	227.8
62.5°	2831.3	2279.5	1023.5	221.4	229.4	298.4	304.8	256.7	218.2	208.5	208.5
65°	2895.5	2310.0	822.9	202.1	239.0	285.5	275.9	231.0	203.7	202.1	202.1
67.5°	2863.4	2285.9	575.9	181.3	211.7	247.0	247.0	211.7	187.7	195.7	192.5
70°	2709.4	2167.2	380.2	163.6	186.1	223.0	229.4	197.3	174.9	179.7	174.9
72.5°	2388.6	1955.5	250.2	144.4	160.4	197.3	213.4	181.3	160.4	158.8	154.0
73°	2326.0	1875.3	235.8	141.2	155.6	190.9	208.5	178.1	157.2	152.4	149.2
75°	1973.1	1564.1	178.1	126.7	138.0	171.6	194.1	166.8	144.4	138.0	134.7
77.5°	1437.3	1084.4	133.1	107.5	115.5	149.2	171.6	152.4	128.3	120.3	118.7
80°	896.7	590.3	99.5	86.6	91.4	125.1	150.8	136.4	110.7	101.1	99.5
82.5°	351.3	192.5	69.0	64.2	67.4	94.6	126.7	118.7	93.0	85.0	80.2
85°	57.7	65.8	44.9	43.3	43.3	67.4	96.2	91.4	62.6	54.5	48.1
87.5°	16.0	30.5	17.6	16.0	16.0	28.9	52.9	41.7	25.7	20.9	19.2
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)