

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: P595251

Luminaire Tested: **IST-PA1D-827-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595251
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1D-827-U-T4W
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6059 lumens
Efficiency: N/A
Efficacy: 97.1 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

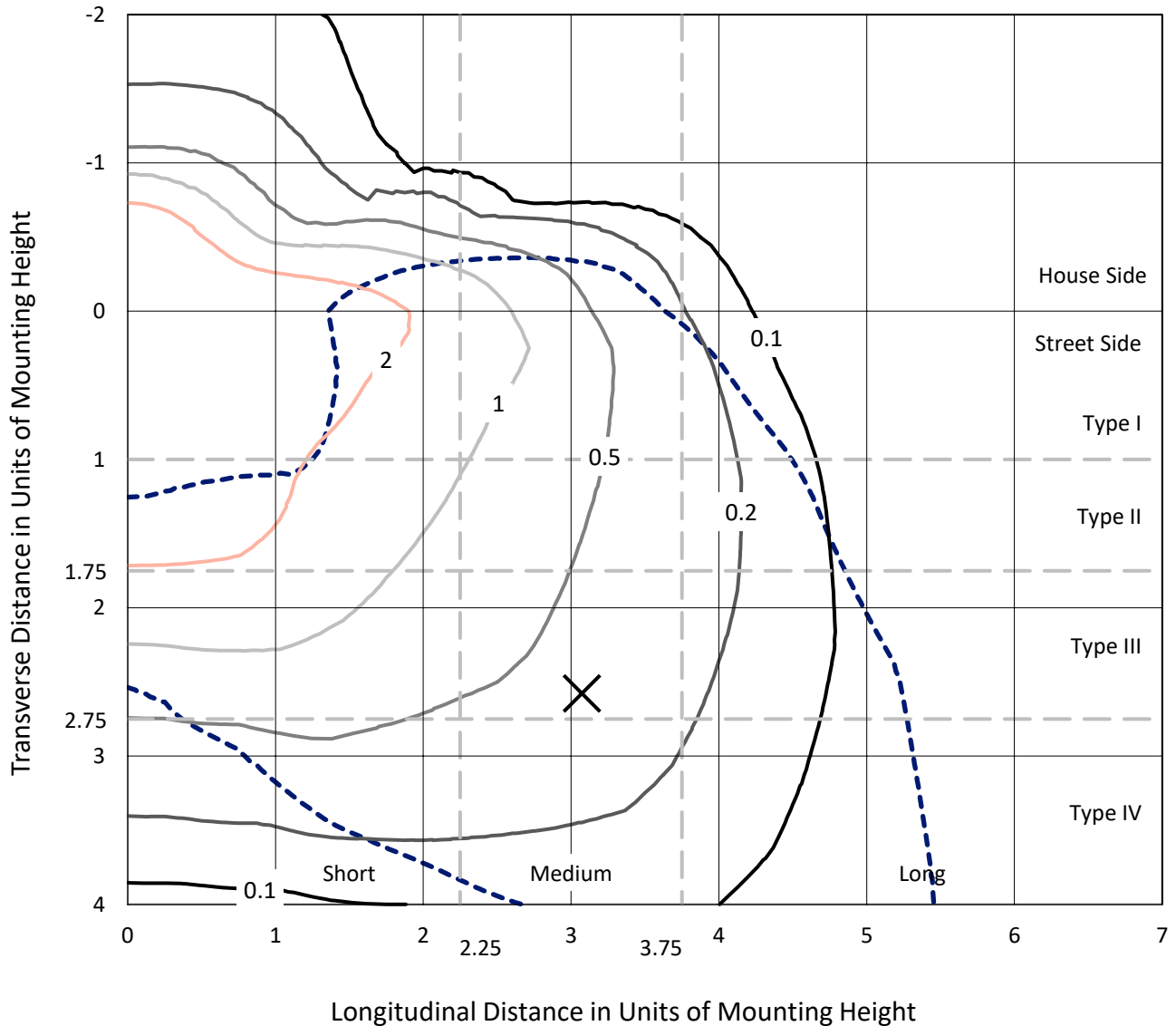
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

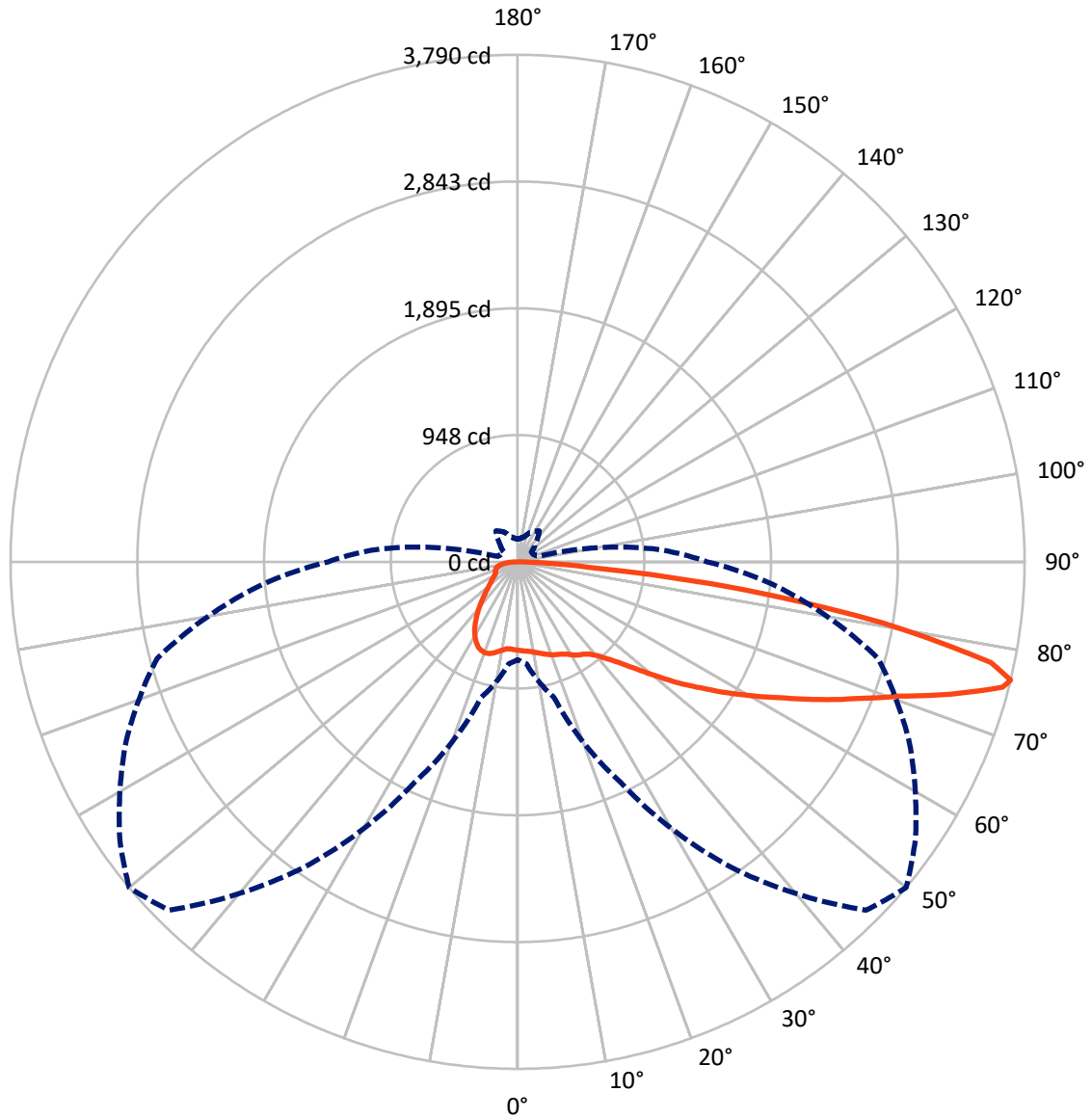
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 76-Deg Vertical

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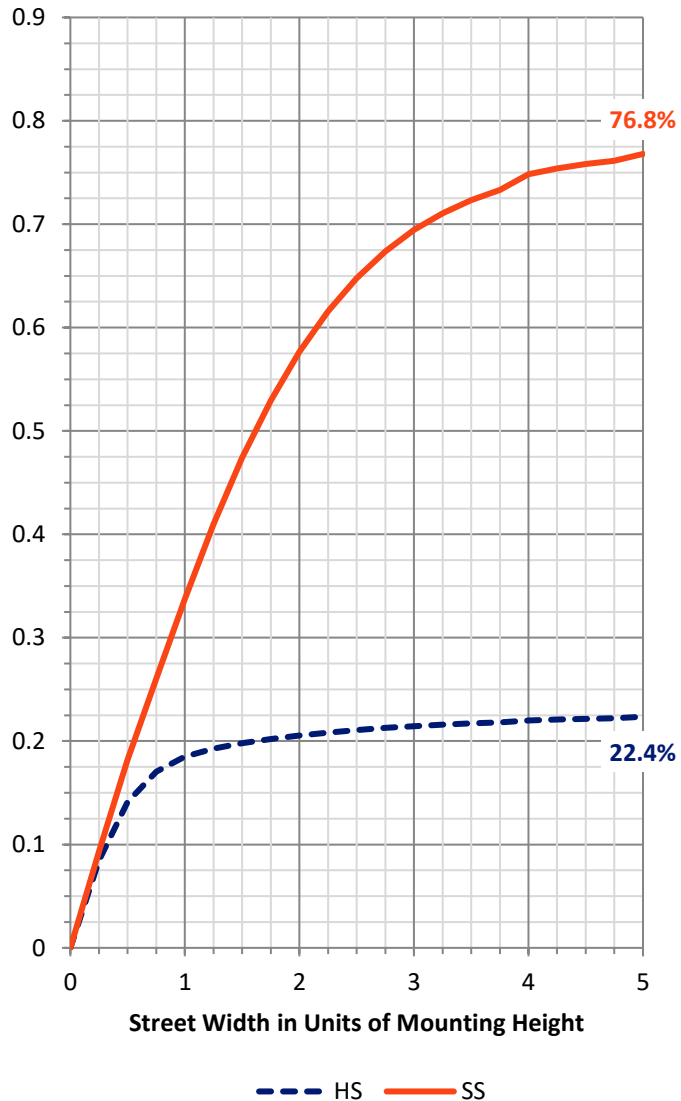
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1386.1	0.0	1386.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	4672.9	0.0	4672.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	6059.0	0.0	6059.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	1.1
10°-20°	201.6	3.3
20°-30°	340.6	5.6
30°-40°	466.8	7.7
40°-50°	687.6	11.3
50°-60°	1081.5	17.9
60°-70°	1556.8	25.7
70°-80°	1415.6	23.4
80°-90°	244.4	4.0
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°	6059.0	100.0
0°-180°	6059.0	100.0

Coefficient of Utilization

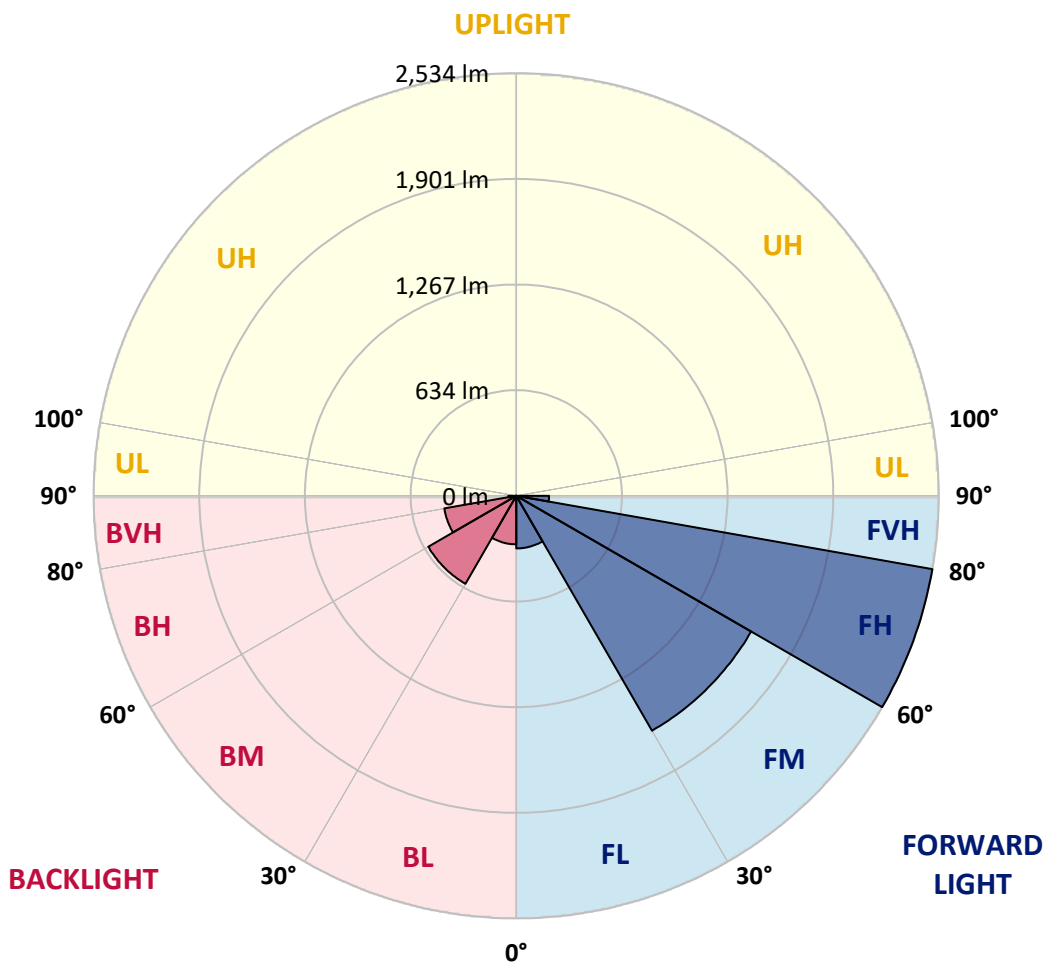


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	315.4	5.2			
FM (30°-60°)	1626.7	26.8			
FH (60°-80°)	2534.1	41.8			G2/5000
FVH (80°-90°)	196.7	3.2			G2/225
BL (0°-30°)	291.0	4.8	B1/500		
BM (30°-60°)	609.2	10.1	B1/1000		
BH (60°-80°)	438.2	7.2	B1/500		G1/500
BVH (80°-90°)	47.7	0.8			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°	50°	55°	65°	75°	85°
0°	660.4	660.4	660.4	660.4	660.4	660.4	660.4	660.4	660.4	660.4	660.4
2.5°	675.3	675.3	676.7	673.8	673.8	666.4	666.4	664.9	661.9	660.4	657.4
5°	700.5	700.5	696.0	688.6	684.2	675.3	670.8	667.8	661.9	654.5	647.1
7.5°	727.2	724.2	721.3	709.4	700.5	684.2	676.7	672.3	660.4	650.0	645.6
10°	755.4	750.9	743.5	728.7	715.3	696.0	687.1	681.2	667.8	658.9	648.5
12.5°	771.7	771.7	762.8	745.0	727.2	703.5	699.0	691.6	678.2	666.4	656.0
15°	788.0	789.5	780.6	759.9	739.1	721.3	713.8	709.4	694.6	676.7	663.4
17.5°	804.4	802.9	794.0	770.2	748.0	731.7	727.2	721.3	706.4	690.1	676.7
20°	816.2	813.3	810.3	780.6	758.4	748.0	742.0	737.6	722.7	704.9	687.1
22.5°	819.2	822.2	819.2	783.6	765.8	753.9	752.4	748.0	736.1	719.8	702.0
25°	820.7	822.2	826.6	792.5	776.2	767.3	764.3	761.3	752.4	739.1	715.3
27.5°	828.1	829.6	829.6	798.4	789.5	783.6	780.6	780.6	776.2	759.9	736.1
30°	829.6	831.1	834.1	813.3	810.3	805.9	807.3	805.9	798.4	780.6	753.9
32.5°	840.0	841.5	848.9	822.2	825.2	829.6	831.1	829.6	814.8	799.9	777.7
35°	874.1	872.6	878.6	844.4	841.5	843.0	847.4	845.9	840.0	826.6	811.8
37.5°	983.9	983.9	967.6	896.4	874.1	871.2	874.1	881.5	883.0	871.2	859.3
40°	1176.9	1166.5	1157.6	1003.2	932.0	914.2	923.1	927.6	939.4	939.4	939.4
42.5°	1375.7	1377.2	1374.3	1169.5	1035.9	991.4	992.9	1003.2	1028.5	1032.9	1046.3
45°	1552.4	1562.7	1585.0	1362.4	1188.8	1089.3	1078.9	1089.3	1124.9	1154.6	1188.8
47.5°	1690.4	1678.5	1727.5	1564.2	1363.9	1222.9	1196.2	1199.1	1248.1	1295.6	1349.0
50°	1809.1	1812.1	1834.3	1770.5	1585.0	1374.3	1338.6	1332.7	1402.5	1452.9	1543.4
52.5°	1942.7	1933.8	1966.4	1951.6	1800.2	1559.8	1503.4	1485.6	1561.3	1632.5	1730.4
55°	2006.5	2015.4	2082.2	2119.3	2003.5	1726.0	1663.7	1669.6	1749.7	1825.4	1962.0
57.5°	2119.3	2128.2	2205.3	2282.5	2184.6	1902.6	1847.7	1847.7	1938.2	2022.8	2233.5
60°	2273.6	2275.1	2353.8	2487.3	2343.4	2073.3	2037.6	2036.2	2134.1	2232.1	2554.1
62.5°	2341.9	2359.7	2476.9	2650.6	2551.1	2282.5	2241.0	2252.8	2340.4	2454.7	2911.8
65°	2249.9	2288.5	2533.3	2760.4	2736.7	2500.7	2484.4	2500.7	2554.1	2677.3	3290.2
67.5°	1945.6	1997.6	2429.4	2834.6	2885.1	2753.0	2729.2	2726.3	2760.4	2898.4	3529.2
70°	1788.3	1819.5	2154.9	2862.8	3003.8	3008.2	3008.2	2988.9	2984.5	3085.4	3551.4
72.5°	1472.2	1504.9	1818.0	2705.5	3116.6	3349.6	3383.7	3312.5	3202.7	3181.9	3178.9
75°	1049.2	1073.0	1343.1	2128.2	2972.6	3677.6	3745.8	3607.8	3302.1	2971.1	2318.1
76°	731.7	765.8	1049.2	1818.0	2791.6	3683.5	3790.3	3630.1	3235.3	2790.1	1910.0
77.5°	371.0	382.9	607.0	1221.4	2335.9	3514.3	3618.2	3438.6	2944.4	2254.3	1212.5
80°	141.0	145.4	216.7	445.2	1282.2	2729.2	2769.3	2527.4	1948.6	963.2	436.3
82.5°	74.2	77.2	121.7	219.6	526.8	1500.4	1693.3	1409.9	764.3	289.4	127.6
85°	37.1	40.1	71.2	133.6	261.2	469.0	543.2	513.5	253.8	109.8	47.5
87.5°	14.8	17.8	35.6	59.4	105.4	92.0	102.4	132.1	81.6	51.9	16.3
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°	660.4	660.4	660.4	660.4	660.4	660.4	660.4	660.4	660.4	660.4	660.4
2.5°	657.4	656.0	657.4	656.0	657.4	657.4	658.9	656.0	656.0	658.9	654.5
5°	647.1	645.6	647.1	650.0	651.5	654.5	660.4	658.9	661.9	664.9	666.4
7.5°	642.6	641.1	645.6	647.1	651.5	657.4	666.4	672.3	675.3	681.2	678.2
10°	647.1	647.1	653.0	657.4	664.9	672.3	679.7	685.6	693.1	697.5	696.0
12.5°	654.5	653.0	663.4	669.3	679.7	687.1	693.1	696.0	702.0	707.9	706.4
15°	661.9	663.4	678.2	690.1	702.0	704.9	706.4	703.5	706.4	709.4	709.4
17.5°	676.7	678.2	694.6	707.9	718.3	715.3	707.9	700.5	700.5	702.0	703.5
20°	688.6	691.6	710.9	722.7	728.7	716.8	704.9	696.0	691.6	693.1	691.6
22.5°	702.0	707.9	727.2	733.1	724.2	709.4	694.6	682.7	682.7	684.2	684.2
25°	718.3	721.3	734.6	731.7	715.3	693.1	681.2	676.7	675.3	676.7	678.2
27.5°	733.1	734.6	742.0	721.3	690.1	666.4	661.9	663.4	664.9	666.4	667.8
30°	752.4	755.4	748.0	706.4	658.9	632.2	632.2	641.1	644.1	648.5	647.1
32.5°	776.2	779.1	756.9	687.1	618.9	592.1	593.6	607.0	615.9	618.9	620.3
35°	816.2	810.3	762.8	660.4	575.8	543.2	544.7	561.0	572.9	577.3	574.3
37.5°	865.2	863.7	771.7	626.3	522.4	492.7	494.2	501.6	513.5	515.0	516.5
40°	946.8	935.0	786.6	581.8	469.0	440.8	437.8	442.3	440.8	443.7	445.2
42.5°	1064.1	1032.9	805.9	531.3	421.5	391.8	388.8	381.4	372.5	363.6	359.1
45°	1202.1	1153.1	829.6	479.4	372.5	345.8	338.4	329.5	311.7	292.4	286.4
47.5°	1380.2	1286.7	856.3	427.4	326.5	305.7	299.8	286.4	265.7	243.4	238.9
50°	1562.7	1444.0	883.0	384.4	289.4	277.5	271.6	258.2	231.5	210.7	206.3
52.5°	1775.0	1599.8	911.2	345.8	256.7	256.7	252.3	231.5	206.3	187.0	184.0
55°	2019.8	1760.1	955.7	308.7	233.0	238.9	233.0	212.2	188.5	175.1	173.6
57.5°	2312.2	1963.4	1012.1	268.6	212.2	216.7	216.7	201.8	185.5	176.6	175.1
60°	2606.1	2169.7	1047.8	238.9	195.9	200.4	209.3	201.8	191.4	187.0	185.5
62.5°	2888.0	2380.5	986.9	213.7	179.6	192.9	215.2	216.7	206.3	207.8	207.8
65°	3098.8	2540.8	798.4	191.4	169.2	197.4	233.0	234.5	216.7	212.2	210.7
67.5°	3171.5	2585.3	537.2	176.6	163.2	200.4	253.8	247.8	216.7	207.8	203.3
70°	3033.5	2422.0	348.8	163.2	154.3	197.4	270.1	255.3	215.2	201.8	195.9
72.5°	2543.7	2065.8	233.0	151.4	145.4	194.4	280.5	255.3	210.7	191.4	185.5
75°	1766.1	1411.4	173.6	136.5	132.1	190.0	283.5	250.8	200.4	179.6	175.1
76°	1417.3	1058.2	157.3	130.6	126.1	187.0	282.0	246.4	192.9	173.6	169.2
77.5°	894.9	608.5	132.1	120.2	117.2	181.1	276.0	236.0	182.5	163.2	158.8
80°	313.1	222.6	100.9	97.9	99.4	167.7	259.7	215.2	161.8	144.0	138.0
82.5°	124.7	102.4	75.7	75.7	78.7	144.0	234.5	190.0	141.0	118.7	109.8
85°	49.0	44.5	53.4	53.4	56.4	117.2	195.9	148.4	96.5	74.2	71.2
87.5°	14.8	20.8	23.7	25.2	26.7	59.4	111.3	65.3	43.0	31.2	25.2
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)