

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: P595134

Luminaire Tested: **IST-PA1C-735-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595134
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-PA1C-735-U-T4W
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6169 lumens
Efficiency: N/A
Efficacy: 127.7 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

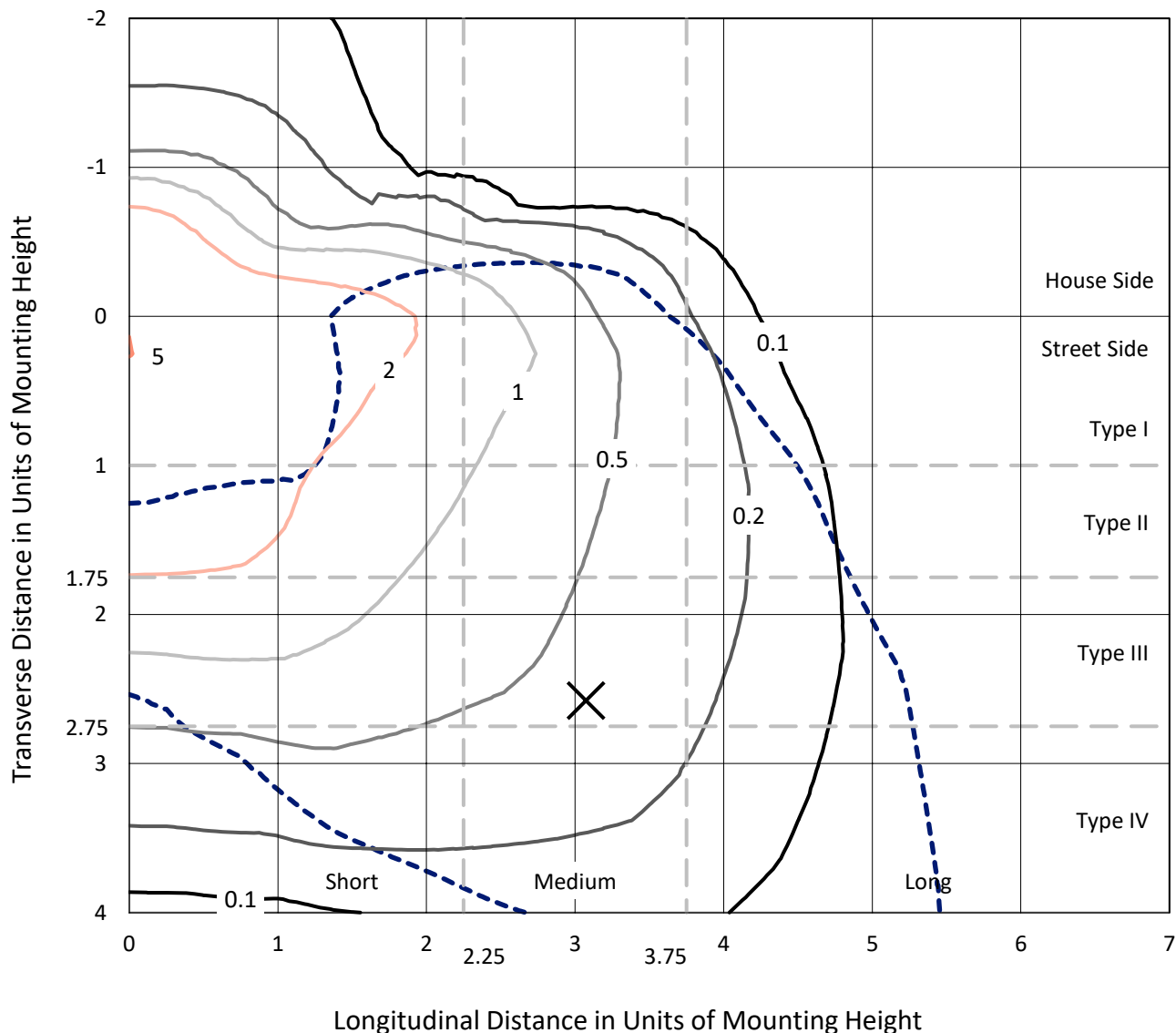
Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

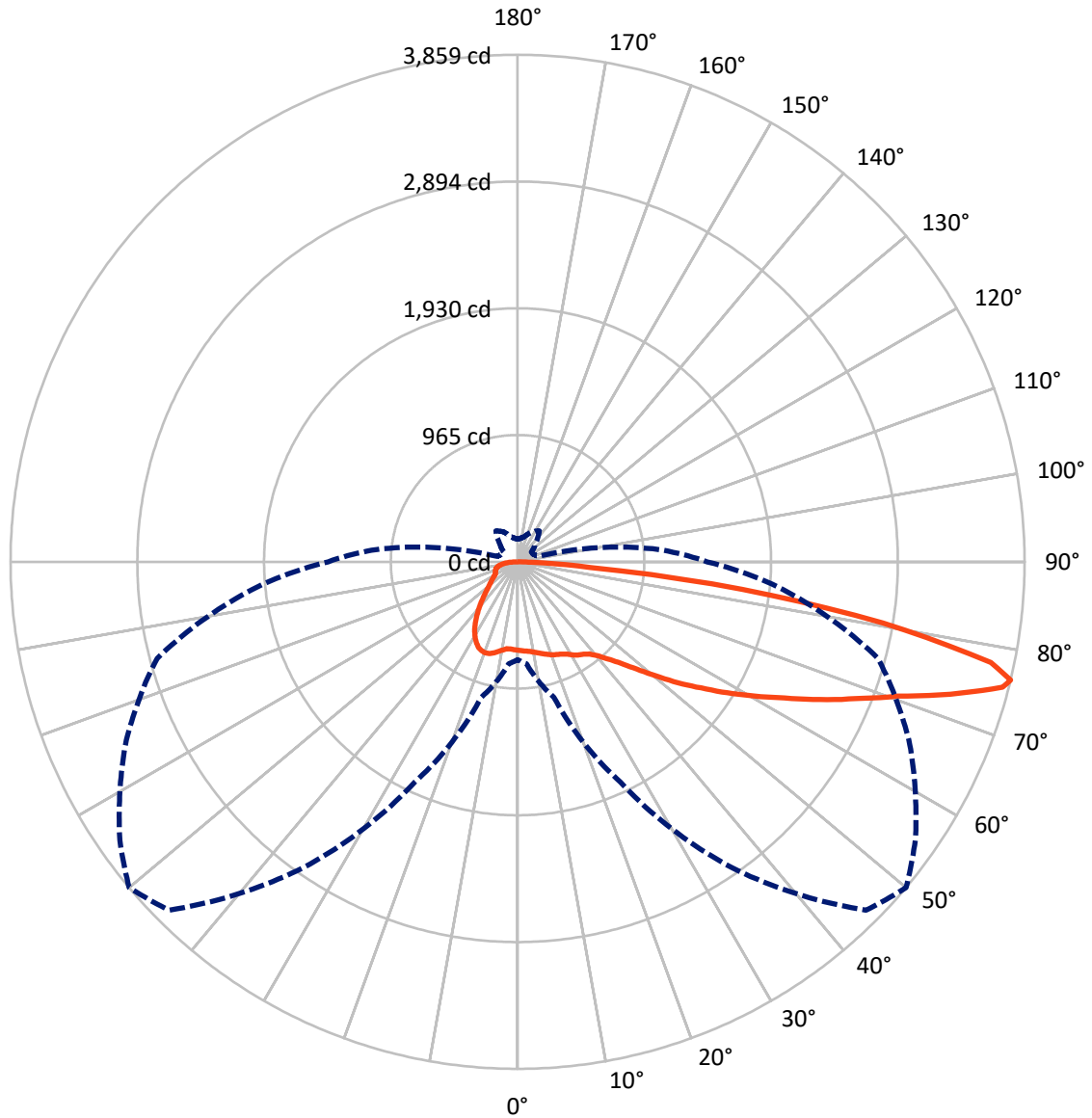
× Max cd
 - - - 1/2 Max cd



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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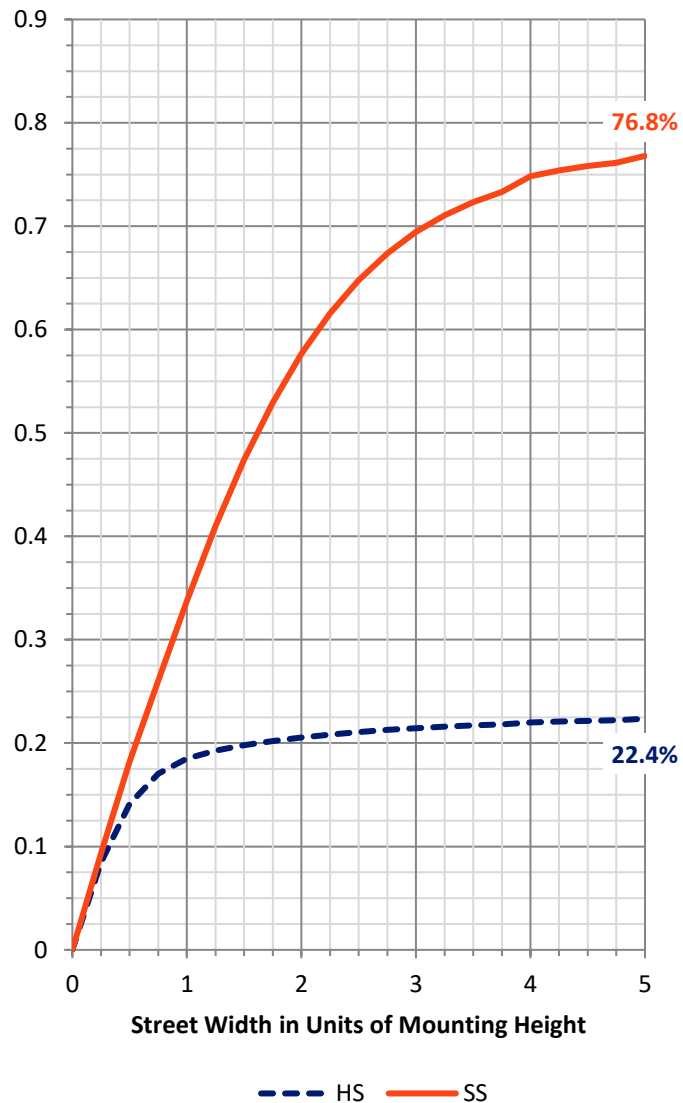
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1411.2	0.0	1411.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	4757.8	0.0	4757.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	6169.0	0.0	6169.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.3	1.1
10°-20°	205.3	3.3
20°-30°	346.8	5.6
30°-40°	475.3	7.7
40°-50°	700.0	11.3
50°-60°	1101.2	17.9
60°-70°	1585.1	25.7
70°-80°	1441.3	23.4
80°-90°	248.8	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°	6169.0	100.0
0°-180°	6169.0	100.0

Coefficient of Utilization

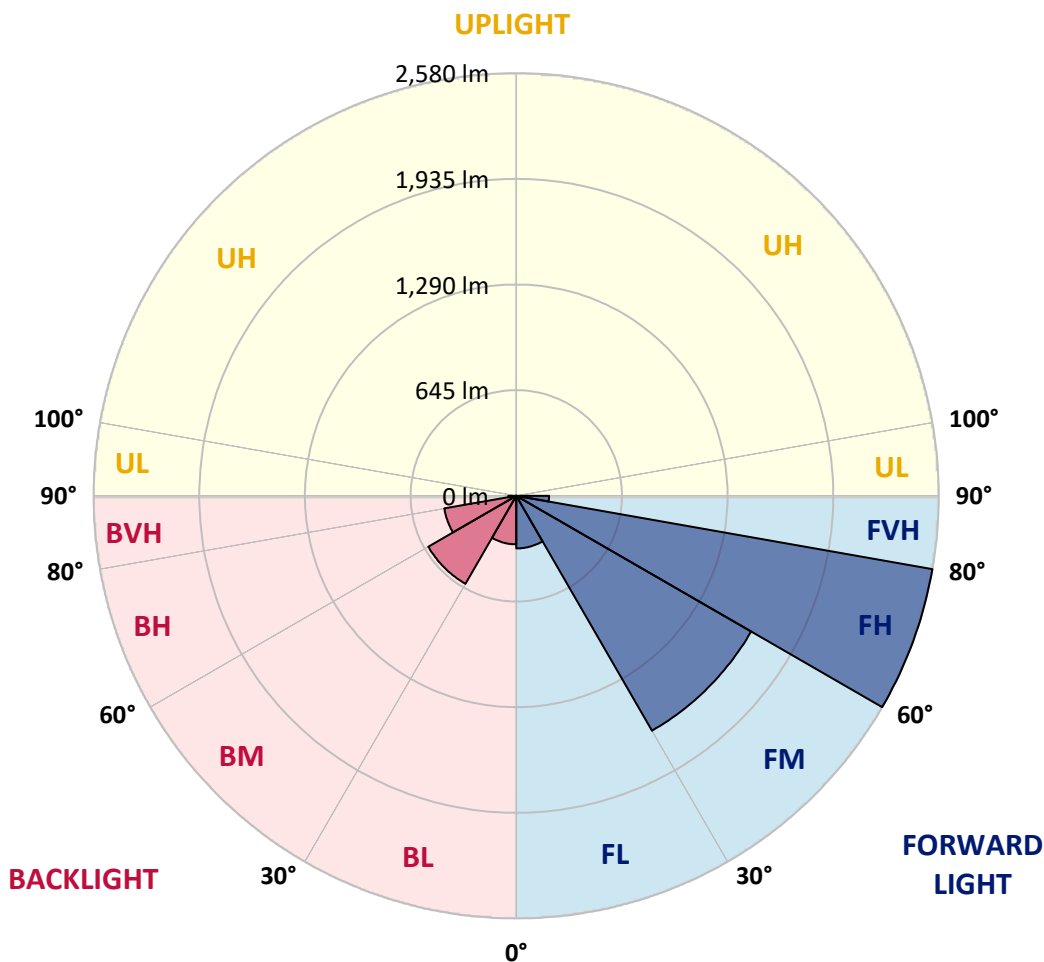


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	321.1	5.2			
FM (30°-60°)	1656.3	26.8			
FH (60°-80°)	2580.2	41.8			G2/5000
FVH (80°-90°)	200.3	3.2			G2/225
BL (0°-30°)	296.3	4.8	B1/500		
BM (30°-60°)	620.3	10.1	B1/1000		
BH (60°-80°)	446.2	7.2	B1/500		G1/500
BVH (80°-90°)	48.5	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°	672.4	672.4	672.4	672.4	672.4	672.4	672.4	672.4	672.4	672.4	672.4
2.5°	687.5	687.5	689.0	686.0	686.0	678.5	678.5	676.9	673.9	672.4	669.4
5°	713.2	713.2	708.7	701.1	696.6	687.5	683.0	680.0	673.9	666.4	658.8
7.5°	740.4	737.4	734.4	722.3	713.2	696.6	689.0	684.5	672.4	661.8	657.3
10°	769.1	764.6	757.0	741.9	728.3	708.7	699.6	693.6	680.0	670.9	660.3
12.5°	785.7	785.7	776.7	758.5	740.4	716.2	711.7	704.1	690.5	678.5	667.9
15°	802.4	803.9	794.8	773.6	752.5	734.4	726.8	722.3	707.2	689.0	675.4
17.5°	819.0	817.5	808.4	784.2	761.6	744.9	740.4	734.4	719.2	702.6	689.0
20°	831.1	828.0	825.0	794.8	772.1	761.6	755.5	751.0	735.9	717.7	699.6
22.5°	834.1	837.1	834.1	797.8	779.7	767.6	766.1	761.6	749.5	732.8	714.7
25°	835.6	837.1	841.6	806.9	790.3	781.2	778.2	775.2	766.1	752.5	728.3
27.5°	843.2	844.7	844.7	812.9	803.9	797.8	794.8	794.8	790.3	773.6	749.5
30°	844.7	846.2	849.2	828.0	825.0	820.5	822.0	820.5	812.9	794.8	767.6
32.5°	855.2	856.8	864.3	837.1	840.1	844.7	846.2	844.7	829.6	814.4	791.8
35°	890.0	888.5	894.5	859.8	856.8	858.3	862.8	861.3	855.2	841.6	826.5
37.5°	1001.8	1001.8	985.2	912.7	890.0	887.0	890.0	897.5	899.1	887.0	874.9
40°	1198.2	1187.7	1178.6	1021.5	948.9	930.8	939.9	944.4	956.5	956.5	956.5
42.5°	1400.7	1402.2	1399.2	1190.7	1054.7	1009.4	1010.9	1021.5	1047.1	1051.7	1065.3
45°	1580.5	1591.1	1613.8	1387.1	1210.3	1109.1	1098.5	1109.1	1145.4	1175.6	1210.3
47.5°	1721.1	1709.0	1758.8	1592.6	1388.6	1245.1	1217.9	1220.9	1270.8	1319.1	1373.5
50°	1841.9	1845.0	1867.6	1802.7	1613.8	1399.2	1362.9	1356.9	1427.9	1479.3	1571.5
52.5°	1977.9	1968.9	2002.1	1987.0	1832.9	1588.1	1530.7	1512.5	1589.6	1662.1	1761.9
55°	2042.9	2052.0	2120.0	2157.7	2039.9	1757.3	1693.9	1699.9	1781.5	1858.6	1997.6
57.5°	2157.7	2166.8	2245.4	2324.0	2224.2	1937.1	1881.2	1881.2	1973.4	2059.5	2274.1
60°	2314.9	2316.4	2396.5	2532.5	2385.9	2110.9	2074.6	2073.1	2172.9	2272.6	2600.5
62.5°	2384.4	2402.5	2521.9	2698.7	2597.5	2324.0	2281.7	2293.7	2382.9	2499.2	2964.6
65°	2290.7	2330.0	2579.3	2810.5	2786.3	2546.1	2529.5	2546.1	2600.5	2725.9	3349.9
67.5°	1981.0	2033.8	2473.6	2886.1	2937.4	2803.0	2778.8	2775.8	2810.5	2951.0	3593.2
70°	1820.8	1852.5	2194.0	2914.8	3058.3	3062.9	3062.9	3043.2	3038.7	3141.4	3615.9
72.5°	1498.9	1532.2	1851.0	2754.6	3173.2	3410.4	3445.1	3372.6	3260.8	3239.6	3236.6
75°	1068.3	1092.5	1367.5	2166.8	3026.6	3744.3	3813.8	3673.3	3362.0	3025.1	2360.2
76°	744.9	779.7	1068.3	1851.0	2842.2	3750.4	3859.2	3696.0	3294.0	2840.7	1944.7
77.5°	377.8	389.8	618.0	1243.6	2378.4	3578.1	3683.9	3501.0	2997.9	2295.2	1234.5
80°	143.5	148.1	220.6	453.3	1305.5	2778.8	2819.6	2573.3	1984.0	980.7	444.2
82.5°	75.6	78.6	123.9	223.6	536.4	1527.6	1724.1	1435.5	778.2	294.7	129.9
85°	37.8	40.8	72.5	136.0	265.9	477.5	553.0	522.8	258.4	111.8	48.4
87.5°	15.1	18.1	36.3	60.4	107.3	93.7	104.3	134.5	83.1	52.9	16.6
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°	672.4	672.4	672.4	672.4	672.4	672.4	672.4	672.4	672.4	672.4	672.4
2.5°	669.4	667.9	669.4	667.9	669.4	669.4	670.9	667.9	667.9	670.9	666.4
5°	658.8	657.3	658.8	661.8	663.3	666.4	672.4	670.9	673.9	676.9	678.5
7.5°	654.3	652.8	657.3	658.8	663.3	669.4	678.5	684.5	687.5	693.6	690.5
10°	658.8	658.8	664.9	669.4	676.9	684.5	692.1	698.1	705.6	710.2	708.7
12.5°	666.4	664.9	675.4	681.5	692.1	699.6	705.6	708.7	714.7	720.8	719.2
15°	673.9	675.4	690.5	702.6	714.7	717.7	719.2	716.2	719.2	722.3	722.3
17.5°	689.0	690.5	707.2	720.8	731.3	728.3	720.8	713.2	713.2	714.7	716.2
20°	701.1	704.1	723.8	735.9	741.9	729.8	717.7	708.7	704.1	705.6	704.1
22.5°	714.7	720.8	740.4	746.4	737.4	722.3	707.2	695.1	695.1	696.6	696.6
25°	731.3	734.4	748.0	744.9	728.3	705.6	693.6	689.0	687.5	689.0	690.5
27.5°	746.4	748.0	755.5	734.4	702.6	678.5	673.9	675.4	676.9	678.5	680.0
30°	766.1	769.1	761.6	719.2	670.9	643.7	643.7	652.8	655.8	660.3	658.8
32.5°	790.3	793.3	770.6	699.6	630.1	602.9	604.4	618.0	627.1	630.1	631.6
35°	831.1	825.0	776.7	672.4	586.3	553.0	554.5	571.2	583.3	587.8	584.8
37.5°	880.9	879.4	785.7	637.7	531.9	501.7	503.2	510.7	522.8	524.3	525.8
40°	964.0	951.9	800.8	592.3	477.5	448.8	445.8	450.3	448.8	451.8	453.3
42.5°	1083.4	1051.7	820.5	540.9	429.1	398.9	395.9	388.3	379.3	370.2	365.7
45°	1223.9	1174.1	844.7	488.1	379.3	352.1	344.5	335.4	317.3	297.7	291.6
47.5°	1405.3	1310.1	871.9	435.2	332.4	311.3	305.2	291.6	270.5	247.8	243.3
50°	1591.1	1470.2	899.1	391.4	294.7	282.6	276.5	262.9	235.7	214.6	210.0
52.5°	1807.2	1628.9	927.8	352.1	261.4	261.4	256.9	235.7	210.0	190.4	187.4
55°	2056.5	1792.1	973.1	314.3	237.2	243.3	237.2	216.1	191.9	178.3	176.8
57.5°	2354.2	1999.1	1030.5	273.5	216.1	220.6	220.6	205.5	188.9	179.8	178.3
60°	2653.4	2209.1	1066.8	243.3	199.5	204.0	213.1	205.5	194.9	190.4	188.9
62.5°	2940.5	2423.7	1004.8	217.6	182.8	196.4	219.1	220.6	210.0	211.5	211.5
65°	3155.0	2586.9	812.9	194.9	172.3	201.0	237.2	238.7	220.6	216.1	214.6
67.5°	3229.1	2632.2	547.0	179.8	166.2	204.0	258.4	252.3	220.6	211.5	207.0
70°	3088.5	2466.0	355.1	166.2	157.1	201.0	275.0	259.9	219.1	205.5	199.5
72.5°	2589.9	2103.3	237.2	154.1	148.1	197.9	285.6	259.9	214.6	194.9	188.9
75°	1798.1	1437.0	176.8	139.0	134.5	193.4	288.6	255.4	204.0	182.8	178.3
76°	1443.0	1077.4	160.2	133.0	128.4	190.4	287.1	250.8	196.4	176.8	172.3
77.5°	911.1	619.5	134.5	122.4	119.4	184.3	281.1	240.3	185.9	166.2	161.7
80°	318.8	226.7	102.7	99.7	101.2	170.7	264.4	219.1	164.7	146.6	140.5
82.5°	126.9	104.3	77.1	77.1	80.1	146.6	238.7	193.4	143.5	120.9	111.8
85°	49.9	45.3	54.4	54.4	57.4	119.4	199.5	151.1	98.2	75.6	72.5
87.5°	15.1	21.2	24.2	25.7	27.2	60.4	113.3	66.5	43.8	31.7	25.7
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)