

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: P595209

Luminaire Tested: **IST-PA1D-735-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1D-735-U-T2R
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7812 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

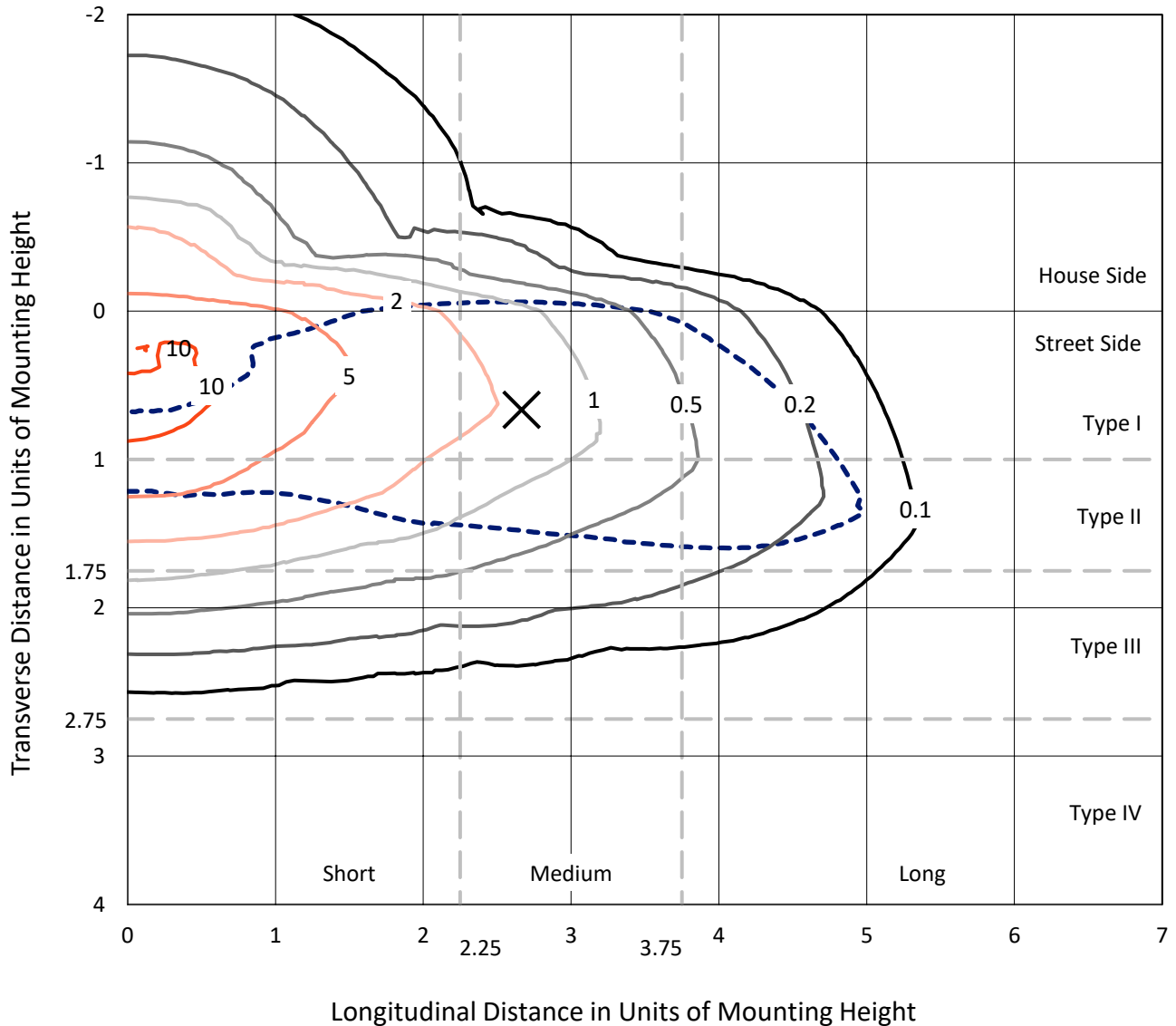
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

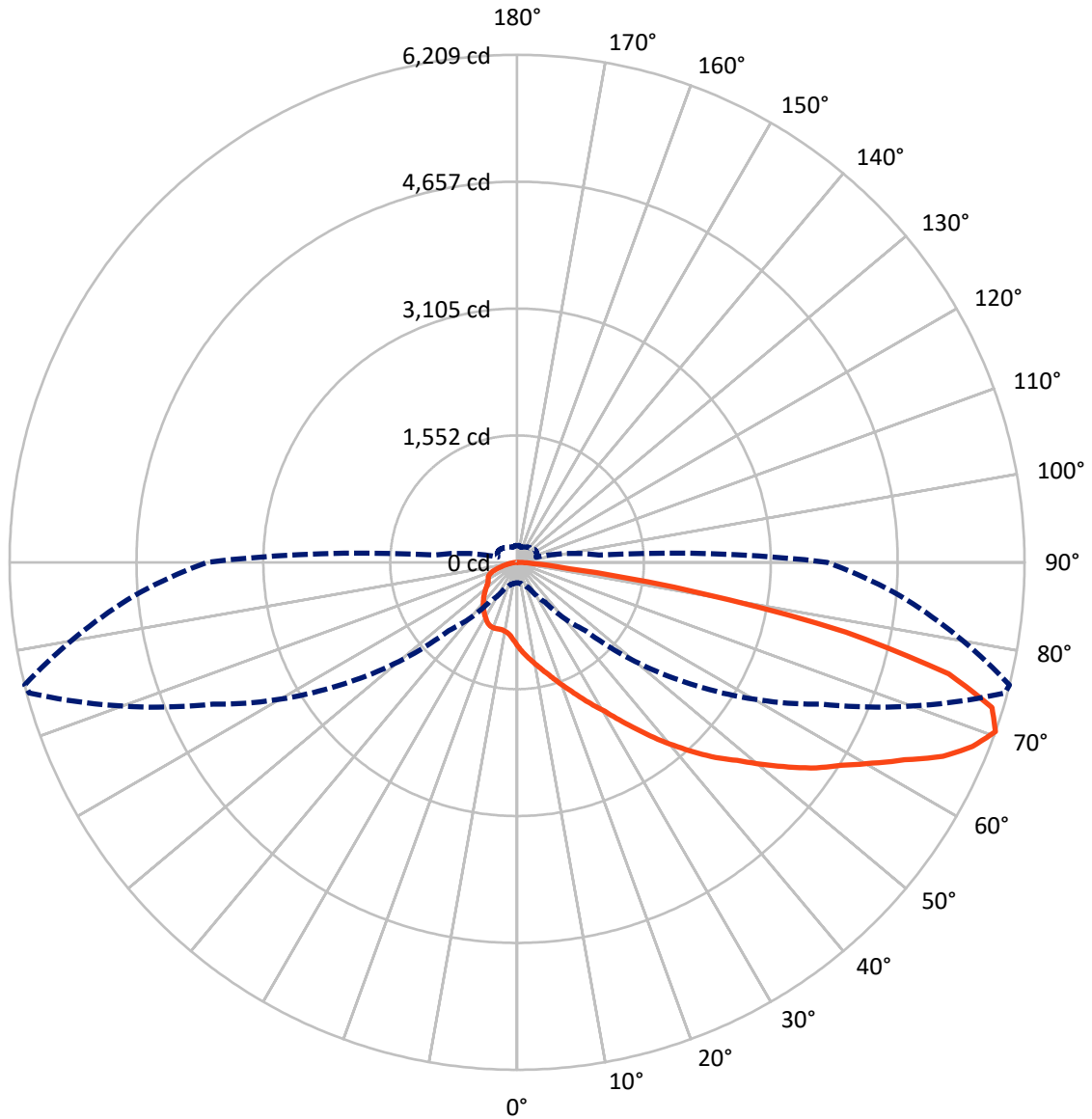
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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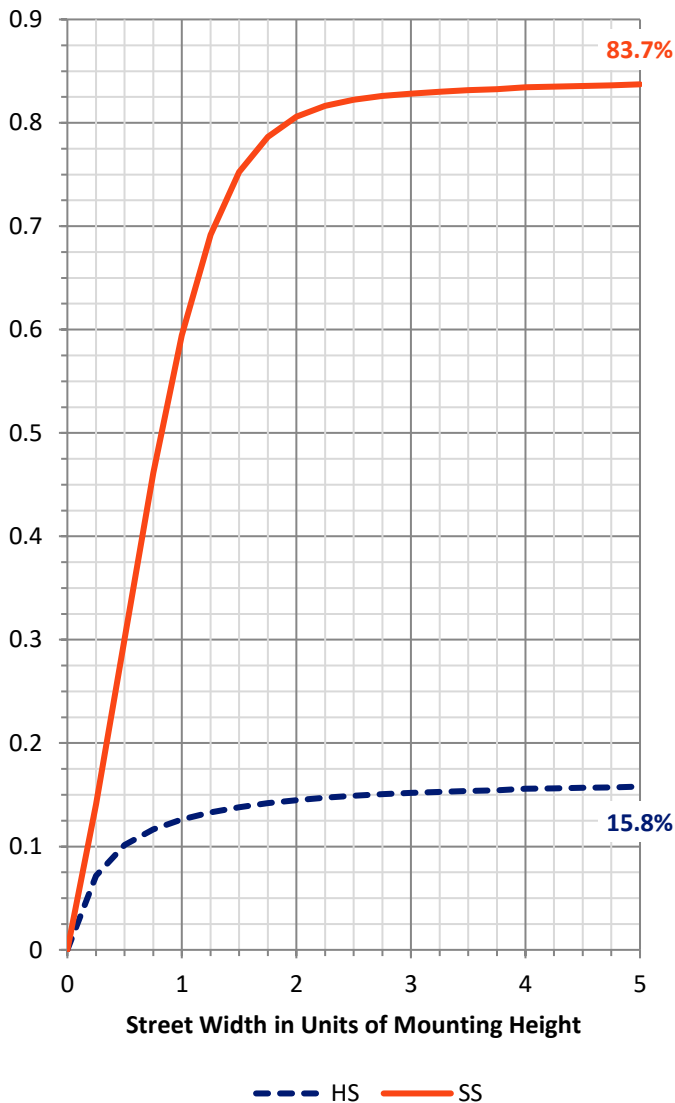
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1253.0	0.0	1253.0
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	6559.0	0.0	6559.0
	% Fixture	84.0	0.0	84.0
Total	Lumens	7812.0	0.0	7812.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	1.3
10°-20°	329.6	4.2
20°-30°	607.4	7.8
30°-40°	1017.7	13.0
40°-50°	1446.1	18.5
50°-60°	1669.6	21.4
60°-70°	1534.8	19.6
70°-80°	967.8	12.4
80°-90°	139.2	1.8
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°	7812.0	100.0
0°-180°	7812.0	100.0

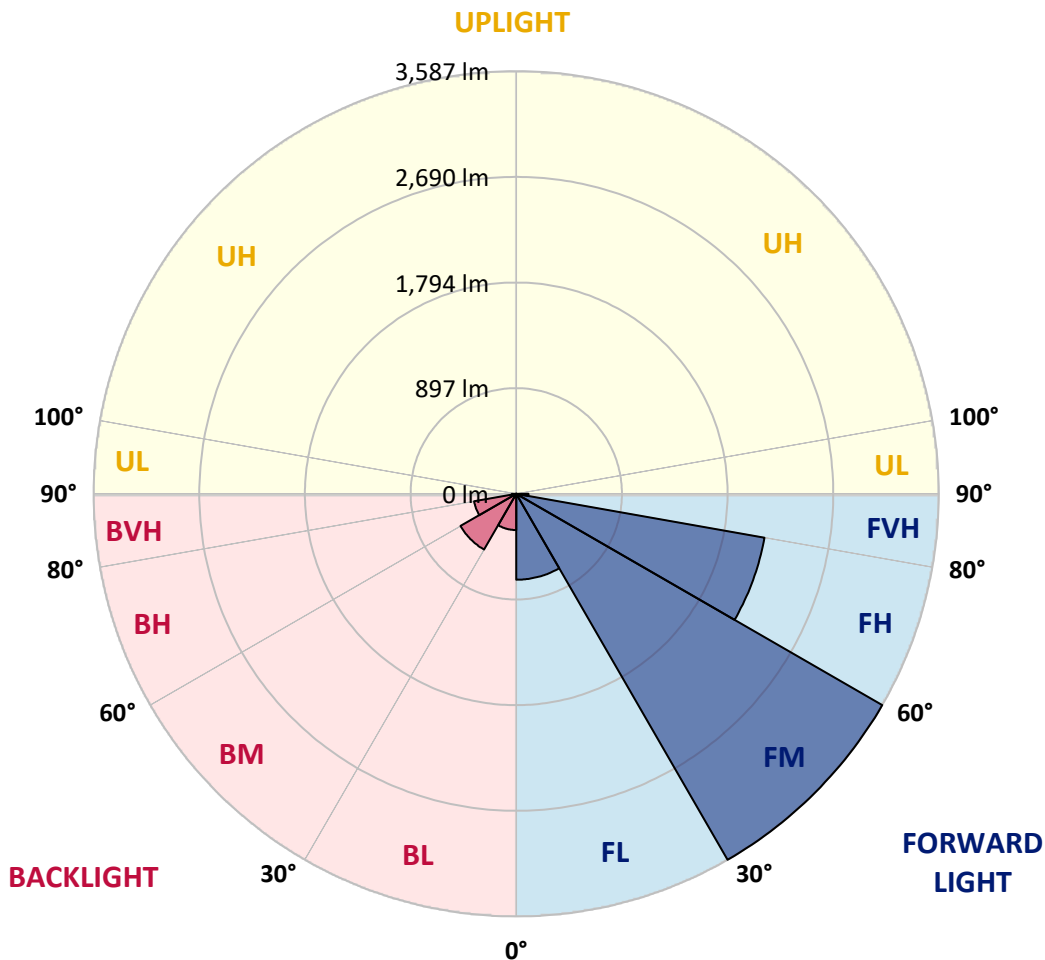


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	729.3	9.3			
FM (30°-60°)	3587.1	45.9			
FH (60°-80°)	2139.4	27.4			G2/5000
FVH (80°-90°)	103.2	1.3			G2/225
BL (0°-30°)	307.6	3.9	B1/500		
BM (30°-60°)	546.3	7.0	B1/1000		
BH (60°-80°)	363.2	4.6	B1/500		G1/500
BVH (80°-90°)	36.0	0.5			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1024.8	1024.8	1024.8	1024.8	1024.8	1024.8	1024.8	1024.8	1024.8	1024.8	1024.8
2.5°	1233.5	1231.7	1226.0	1216.6	1209.1	1186.5	1156.4	1130.1	1090.6	1086.9	1047.4
5°	1344.5	1337.0	1337.0	1327.6	1318.2	1293.7	1256.1	1209.1	1152.7	1148.9	1073.7
7.5°	1397.1	1399.0	1395.3	1387.7	1389.6	1368.9	1335.1	1288.1	1211.0	1207.2	1109.4
10°	1472.4	1470.5	1463.0	1457.3	1455.4	1436.6	1406.5	1363.3	1282.4	1274.9	1150.8
12.5°	1545.7	1540.0	1541.9	1540.0	1536.3	1517.5	1489.3	1446.0	1346.4	1342.6	1201.6
15°	1587.1	1585.2	1598.3	1602.1	1617.1	1600.2	1575.8	1526.9	1436.6	1421.6	1261.7
17.5°	1613.4	1611.5	1624.7	1654.8	1683.0	1683.0	1675.4	1622.8	1523.1	1511.8	1329.4
20°	1658.5	1666.0	1688.6	1713.0	1754.4	1761.9	1760.1	1737.5	1622.8	1611.5	1404.7
22.5°	1748.8	1745.0	1763.8	1801.4	1839.0	1850.3	1852.2	1852.2	1737.5	1716.8	1481.8
25°	1942.5	1933.1	1918.0	1914.2	1959.4	1957.5	1951.9	1965.0	1857.8	1842.8	1570.1
27.5°	2311.0	2290.3	2232.0	2115.4	2089.1	2098.5	2070.3	2072.2	1995.1	1976.3	1645.3
30°	2660.8	2651.4	2596.8	2455.8	2307.3	2254.6	2205.7	2185.0	2147.4	2115.4	1726.2
32.5°	2976.7	2978.6	2912.7	2758.5	2606.2	2440.8	2356.1	2312.9	2327.9	2299.7	1837.2
35°	3191.0	3174.1	3132.7	3029.3	2863.8	2705.9	2544.2	2448.3	2529.1	2497.2	1948.1
37.5°	3317.0	3303.9	3270.0	3196.7	3113.9	2961.6	2756.7	2610.0	2767.9	2720.9	2089.1
40°	3381.0	3362.2	3328.3	3298.2	3258.7	3176.0	2995.5	2794.3	2986.1	2944.7	2228.3
42.5°	3388.5	3375.3	3356.5	3341.5	3354.6	3343.4	3228.6	3008.6	3215.5	3170.4	2388.1
45°	3382.8	3392.2	3369.7	3343.4	3369.7	3465.6	3465.6	3223.0	3443.0	3409.2	2540.4
47.5°	3386.6	3377.2	3369.7	3362.2	3365.9	3497.5	3629.2	3424.2	3661.1	3621.6	2719.1
50°	3230.5	3243.7	3307.6	3335.8	3352.8	3505.1	3760.8	3642.3	3931.9	3883.0	2918.4
52.5°	2734.1	2741.6	3033.1	3243.7	3311.4	3475.0	3852.9	3884.9	4198.9	4161.3	3132.7
55°	2106.0	2145.5	2422.0	2937.2	3217.4	3424.2	3881.1	4042.9	4471.6	4441.5	3349.0
57.5°	1733.7	1739.4	1899.2	2359.9	2920.3	3377.2	3909.4	4187.7	4716.0	4682.2	3574.6
60°	1438.5	1425.3	1523.1	1820.2	2425.7	3189.2	3915.0	4302.4	5000.0	4988.7	3807.8
62.5°	1056.8	1071.8	1165.8	1417.8	1897.3	2807.4	3886.8	4400.1	5338.5	5323.4	4067.3
65°	648.7	667.5	782.2	1013.5	1436.6	2228.3	3702.5	4450.9	5693.9	5727.7	4347.5
67.5°	344.1	357.3	425.0	613.0	985.3	1698.0	3258.7	4387.0	5994.7	6009.8	4616.4
70°	252.0	253.9	276.4	346.0	594.2	1180.9	2595.0	4108.7	6179.0	6209.1	4704.8
72.5°	220.0	221.9	231.3	248.2	323.4	720.2	1859.7	3623.5	6101.9	6075.6	4556.2
75°	199.3	199.3	206.8	212.5	236.9	398.6	1139.5	2965.4	5513.3	5455.0	3884.9
77.5°	171.1	171.1	178.6	186.2	205.0	257.6	596.1	2198.2	4215.9	4116.2	2657.0
80°	137.3	137.3	146.7	156.1	180.5	193.7	291.5	1470.5	2410.7	2264.0	1209.1
82.5°	94.0	101.5	118.5	129.7	150.4	137.3	171.1	635.6	759.7	658.1	272.7
85°	56.4	60.2	84.6	97.8	112.8	73.3	105.3	244.5	227.5	199.3	62.1
87.5°	5.6	9.4	33.8	39.5	39.5	20.7	45.1	58.3	65.8	67.7	15.0
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°	1024.8	1024.8	1024.8	1024.8	1024.8	1024.8	1024.8	1024.8	1024.8	1024.8	1024.8
2.5°	1024.8	1002.3	959.0	919.5	880.0	853.7	827.4	818.0	804.8	795.4	802.9
5°	1034.2	987.2	904.5	834.9	787.9	752.2	735.2	725.8	718.3	716.4	714.6
7.5°	1045.5	975.9	865.0	787.9	742.8	725.8	722.1	722.1	722.1	724.0	725.8
10°	1069.9	979.7	844.3	761.6	737.1	733.4	735.2	742.8	742.8	744.6	744.6
12.5°	1098.2	989.1	829.3	757.8	742.8	744.6	746.5	750.3	750.3	755.9	754.0
15°	1139.5	1007.9	827.4	761.6	748.4	744.6	744.6	742.8	742.8	742.8	746.5
17.5°	1192.2	1034.2	829.3	761.6	742.8	735.2	729.6	724.0	716.4	720.2	716.4
20°	1244.8	1066.2	829.3	752.2	727.7	708.9	692.0	682.6	673.2	671.3	673.2
22.5°	1310.6	1103.8	819.9	731.5	695.7	669.4	645.0	631.8	616.8	611.1	607.4
25°	1367.1	1133.9	801.1	701.4	660.0	622.4	590.4	567.9	549.1	545.3	545.3
27.5°	1425.3	1160.2	772.8	663.8	609.2	567.9	532.2	503.9	485.1	483.3	481.4
30°	1479.9	1182.8	735.2	622.4	564.1	515.2	473.9	449.4	432.5	423.1	417.4
32.5°	1551.3	1212.9	699.5	581.0	511.5	462.6	425.0	404.3	381.7	366.7	361.0
35°	1641.6	1248.6	660.0	535.9	464.5	415.6	393.0	362.9	334.7	317.8	312.1
37.5°	1743.1	1299.4	618.7	488.9	417.4	381.7	368.6	321.5	291.5	285.8	283.9
40°	1869.1	1348.2	571.6	440.0	372.3	362.9	340.4	291.5	276.4	274.5	272.7
42.5°	1995.1	1400.9	526.5	391.1	336.6	340.4	308.4	283.9	270.8	267.0	265.1
45°	2141.8	1453.5	481.4	347.9	308.4	308.4	291.5	276.4	265.1	261.4	261.4
47.5°	2296.0	1506.2	432.5	310.3	287.7	276.4	278.3	267.0	259.5	255.7	253.9
50°	2489.6	1557.0	387.4	283.9	274.5	259.5	265.1	257.6	253.9	250.1	248.2
52.5°	2672.0	1579.5	346.0	268.9	267.0	252.0	253.9	250.1	248.2	242.6	240.7
55°	2850.7	1573.9	314.0	261.4	257.6	250.1	246.3	244.5	242.6	236.9	235.0
57.5°	3050.0	1566.4	293.3	259.5	252.0	244.5	244.5	238.8	231.3	231.3	231.3
60°	3256.9	1541.9	283.9	259.5	250.1	244.5	240.7	235.0	227.5	229.4	227.5
62.5°	3490.0	1494.9	278.3	265.1	252.0	242.6	238.8	231.3	221.9	223.8	221.9
65°	3695.0	1399.0	274.5	270.8	255.7	244.5	235.0	225.6	214.4	216.2	214.4
67.5°	3834.1	1237.3	263.3	274.5	261.4	242.6	231.3	218.1	203.1	210.6	208.7
70°	3794.6	1006.0	242.6	267.0	267.0	244.5	225.6	208.7	191.8	206.8	201.2
72.5°	3488.1	755.9	203.1	240.7	263.3	244.5	214.4	193.7	178.6	188.0	176.8
75°	2863.8	513.3	161.7	191.8	246.3	246.3	205.0	178.6	159.8	154.2	150.4
77.5°	1786.4	319.7	126.0	141.0	206.8	244.5	195.6	159.8	133.5	129.7	126.0
80°	707.0	171.1	99.7	101.5	152.3	223.8	182.4	135.4	107.2	103.4	95.9
82.5°	161.7	86.5	69.6	67.7	94.0	182.4	165.5	107.2	82.7	82.7	69.6
85°	48.9	45.1	45.1	43.2	47.0	94.0	127.9	73.3	56.4	39.5	33.8
87.5°	13.2	18.8	16.9	15.0	15.0	13.2	41.4	18.8	11.3	5.6	3.8
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)