

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: P595335

Luminaire Tested: **IST-PA1E-830-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595335
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-PA1E-830-U-T2R
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8208 lumens
Efficiency: N/A
Efficacy: 100.7 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

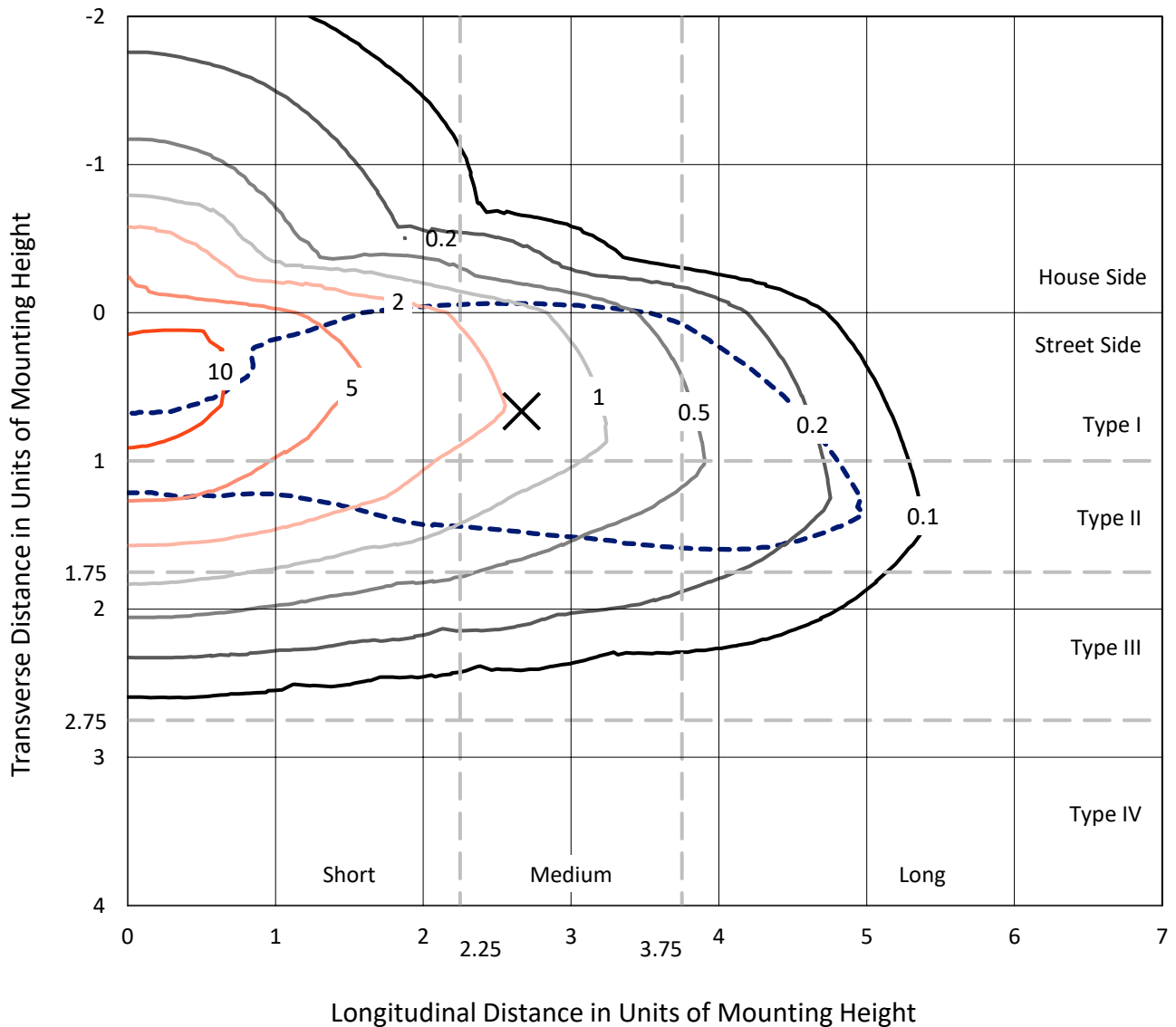
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

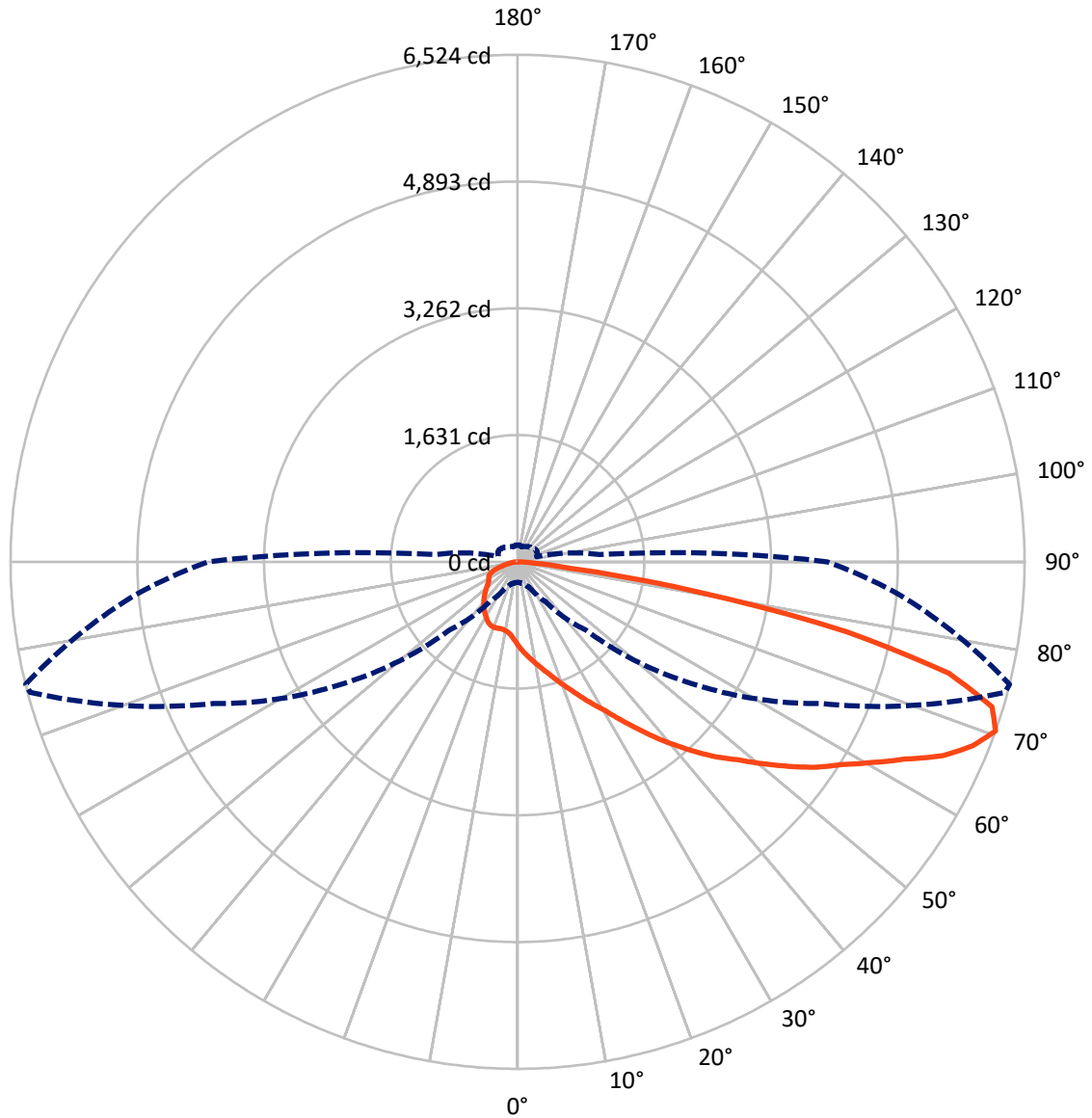
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 13 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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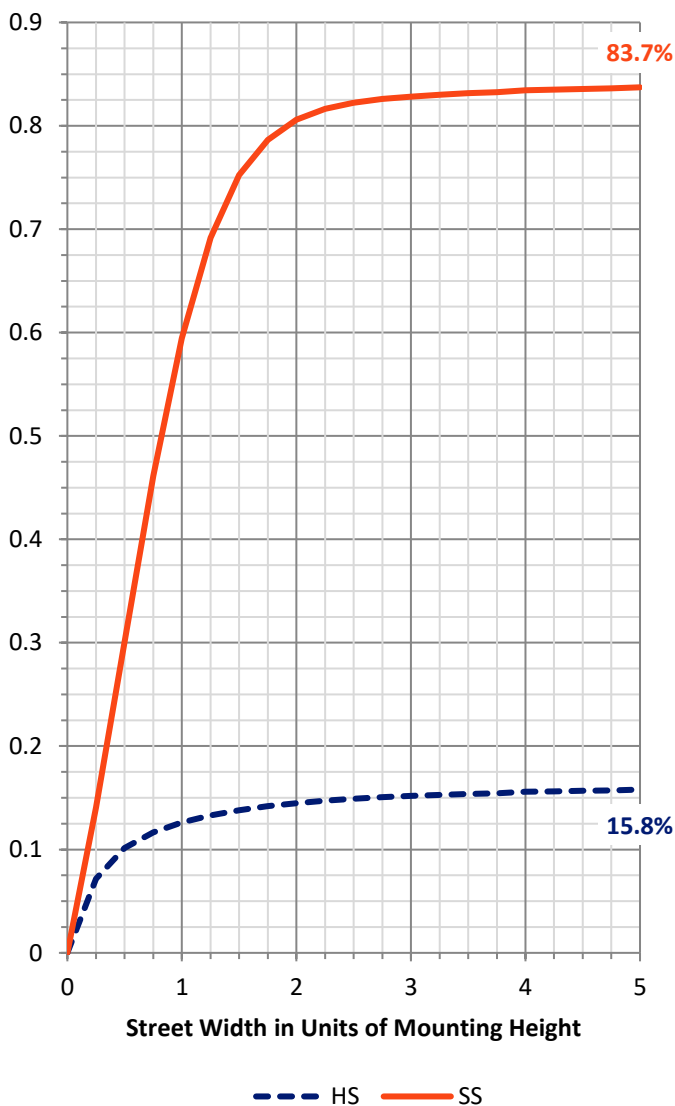
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1316.5	0.0	1316.5
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	6891.5	0.0	6891.5
	% Fixture	84.0	0.0	84.0
Total	Lumens	8208.0	0.0	8208.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	1.3
10°-20°	346.3	4.2
20°-30°	638.2	7.8
30°-40°	1069.3	13.0
40°-50°	1519.4	18.5
50°-60°	1754.2	21.4
60°-70°	1612.6	19.6
70°-80°	1016.8	12.4
80°-90°	146.2	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°	8208.0	100.0
0°-180°	8208.0	100.0

Coefficient of Utilization



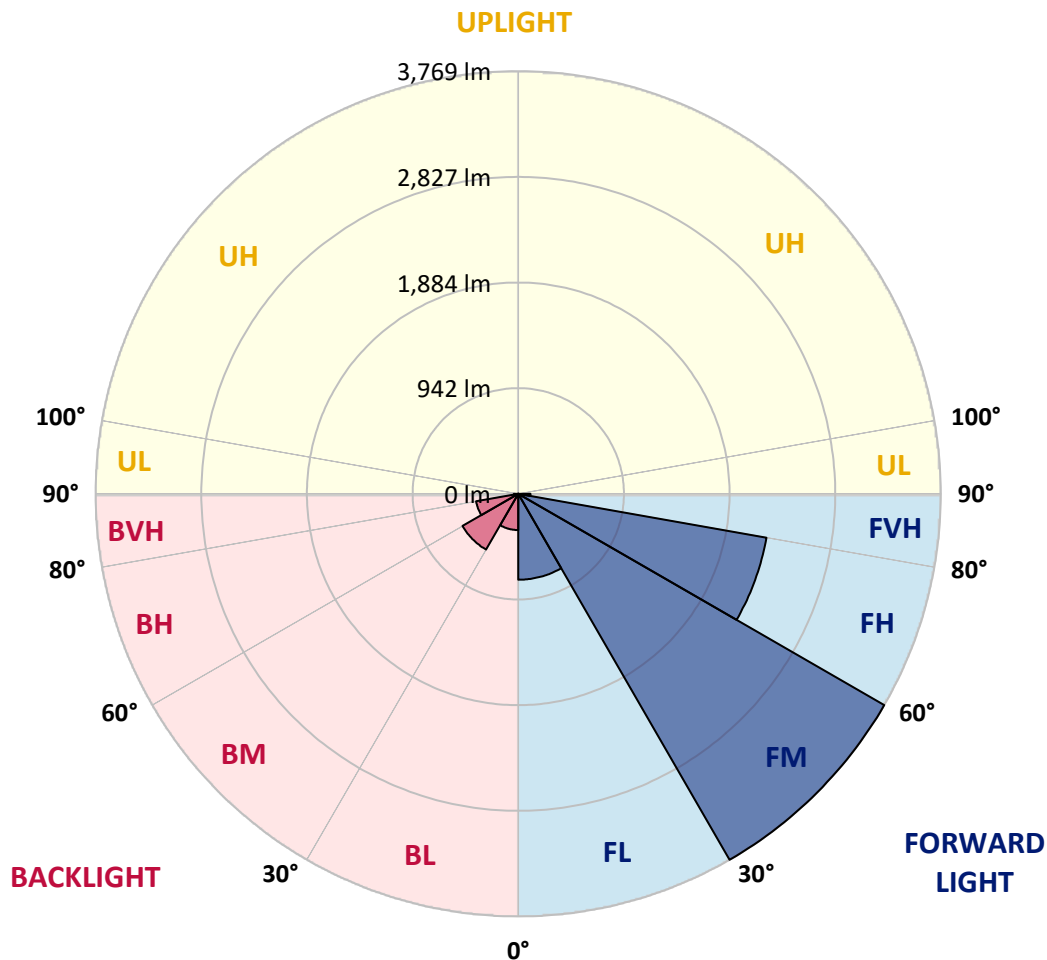
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	766.3	9.3			
FM (30°-60°)	3768.9	45.9			
FH (60°-80°)	2247.9	27.4			G2/5000
FVH (80°-90°)	108.4	1.3			G2/225
BL (0°-30°)	323.1	3.9	B1/500		
BM (30°-60°)	573.9	7.0	B1/1000		
BH (60°-80°)	381.6	4.6	B1/500		G1/500
BVH (80°-90°)	37.8	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°	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8
2.5°	1296.1	1294.1	1288.2	1278.3	1270.4	1246.7	1215.1	1187.4	1145.9	1142.0	1100.5
5°	1412.6	1404.7	1404.7	1394.9	1385.0	1359.3	1319.8	1270.4	1211.1	1207.2	1128.1
7.5°	1468.0	1469.9	1466.0	1458.1	1460.1	1438.3	1402.8	1353.4	1272.4	1268.4	1165.7
10°	1547.0	1545.0	1537.1	1531.2	1529.2	1509.4	1477.8	1432.4	1347.4	1339.5	1209.1
12.5°	1624.0	1618.1	1620.1	1618.1	1614.2	1594.4	1564.8	1519.3	1414.6	1410.7	1262.5
15°	1667.5	1665.5	1679.4	1683.3	1699.1	1681.3	1655.7	1604.3	1509.4	1493.6	1325.7
17.5°	1695.2	1693.2	1707.0	1738.6	1768.3	1768.3	1760.4	1705.0	1600.3	1588.5	1396.8
20°	1742.6	1750.5	1774.2	1799.9	1843.3	1851.2	1849.3	1825.6	1705.0	1693.2	1475.9
22.5°	1837.4	1833.5	1853.2	1892.7	1932.3	1944.1	1946.1	1946.1	1825.6	1803.8	1556.9
25°	2040.9	2031.0	2015.2	2011.3	2058.7	2056.7	2050.8	2064.6	1952.0	1936.2	1649.7
27.5°	2428.2	2406.4	2345.2	2222.7	2195.0	2204.9	2175.3	2177.2	2096.2	2076.5	1728.8
30°	2795.6	2785.8	2728.5	2580.3	2424.2	2368.9	2317.5	2295.8	2256.3	2222.7	1813.7
32.5°	3127.6	3129.5	3060.4	2898.4	2738.3	2564.5	2475.6	2430.1	2445.9	2416.3	1930.3
35°	3352.8	3335.0	3291.5	3182.9	3009.0	2843.1	2673.1	2572.4	2657.3	2623.8	2046.8
37.5°	3485.2	3471.3	3435.8	3358.7	3271.8	3111.8	2896.4	2742.3	2908.3	2858.9	2195.0
40°	3552.3	3532.6	3497.0	3465.4	3423.9	3337.0	3147.3	2935.9	3137.4	3094.0	2341.2
42.5°	3560.2	3546.4	3526.7	3510.9	3524.7	3512.8	3392.3	3161.2	3378.5	3331.1	2509.2
45°	3554.3	3564.2	3540.5	3512.8	3540.5	3641.3	3641.3	3386.4	3617.5	3582.0	2669.2
47.5°	3558.3	3548.4	3540.5	3532.6	3536.5	3674.8	3813.1	3597.8	3846.7	3805.2	2856.9
50°	3394.3	3408.1	3475.3	3504.9	3522.7	3682.7	3951.4	3827.0	4131.2	4079.9	3066.3
52.5°	2872.7	2880.6	3186.8	3408.1	3479.2	3651.1	4048.2	4081.8	4411.8	4372.3	3291.5
55°	2212.8	2254.3	2544.7	3086.1	3380.5	3597.8	4077.9	4247.8	4698.3	4666.6	3518.8
57.5°	1821.6	1827.5	1995.5	2479.5	3068.3	3548.4	4107.5	4399.9	4955.1	4919.5	3755.8
60°	1511.4	1497.6	1600.3	1912.5	2548.7	3350.8	4113.4	4520.4	5253.4	5241.6	4000.8
62.5°	1110.4	1126.2	1224.9	1489.7	1993.5	2949.7	4083.8	4623.2	5609.1	5593.3	4273.5
65°	681.6	701.4	821.9	1064.9	1509.4	2341.2	3890.2	4676.5	5982.5	6018.0	4567.9
67.5°	361.6	375.4	446.5	644.1	1035.3	1784.1	3423.9	4609.4	6298.6	6314.4	4850.4
70°	264.7	266.7	290.4	363.5	624.3	1240.8	2726.5	4316.9	6492.2	6523.8	4943.3
72.5°	231.2	233.1	243.0	260.8	339.8	756.7	1954.0	3807.2	6411.2	6383.5	4787.2
75°	209.4	209.4	217.3	223.3	248.9	418.9	1197.3	3115.7	5792.8	5731.6	4081.8
77.5°	179.8	179.8	187.7	195.6	215.4	270.7	626.3	2309.6	4429.6	4324.9	2791.7
80°	144.2	144.2	154.1	164.0	189.7	203.5	306.2	1545.0	2532.9	2378.8	1270.4
82.5°	98.8	106.7	124.5	136.3	158.1	144.2	179.8	667.8	798.2	691.5	286.5
85°	59.3	63.2	88.9	102.7	118.5	77.1	110.6	256.8	239.1	209.4	65.2
87.5°	5.9	9.9	35.6	41.5	41.5	21.7	47.4	61.2	69.2	71.1	15.8
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°	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8
2.5°	1076.8	1053.1	1007.6	966.1	924.6	897.0	869.3	859.4	845.6	835.7	843.6
5°	1086.6	1037.3	950.3	877.2	827.8	790.3	772.5	762.6	754.7	752.7	750.8
7.5°	1098.5	1025.4	908.8	827.8	780.4	762.6	758.7	758.7	758.7	760.7	762.6
10°	1124.2	1029.3	887.1	800.2	774.5	770.5	772.5	780.4	780.4	782.4	782.4
12.5°	1153.8	1039.2	871.3	796.2	780.4	782.4	784.4	788.3	788.3	794.2	792.3
15°	1197.3	1059.0	869.3	800.2	786.3	782.4	782.4	780.4	780.4	780.4	784.4
17.5°	1252.6	1086.6	871.3	800.2	780.4	772.5	766.6	760.7	752.7	756.7	752.7
20°	1307.9	1120.2	871.3	790.3	764.6	744.8	727.1	717.2	707.3	705.3	707.3
22.5°	1377.1	1159.7	861.4	768.6	731.0	703.4	677.7	663.8	648.0	642.1	638.2
25°	1436.3	1191.4	841.7	736.9	693.5	654.0	620.4	596.7	576.9	573.0	573.0
27.5°	1497.6	1219.0	812.0	697.4	640.1	596.7	559.1	529.5	509.7	507.8	505.8
30°	1554.9	1242.7	772.5	654.0	592.7	541.3	497.9	472.2	454.4	444.5	438.6
32.5°	1630.0	1274.3	735.0	610.5	537.4	486.0	446.5	424.8	401.1	385.3	379.3
35°	1724.8	1311.9	693.5	563.1	488.0	436.6	412.9	381.3	351.7	333.9	328.0
37.5°	1831.5	1365.2	650.0	513.7	438.6	401.1	387.2	337.8	306.2	300.3	298.3
40°	1963.9	1416.6	600.6	462.3	391.2	381.3	357.6	306.2	290.4	288.5	286.5
42.5°	2096.2	1471.9	553.2	410.9	353.7	357.6	324.0	298.3	284.5	280.6	278.6
45°	2250.3	1527.2	505.8	365.5	324.0	324.0	306.2	290.4	278.6	274.6	274.6
47.5°	2412.4	1582.6	454.4	326.0	302.3	290.4	292.4	280.6	272.6	268.7	266.7
50°	2615.9	1635.9	407.0	298.3	288.5	272.6	278.6	270.7	266.7	262.8	260.8
52.5°	2807.5	1659.6	363.5	282.5	280.6	264.7	266.7	262.8	260.8	254.9	252.9
55°	2995.2	1653.7	329.9	274.6	270.7	262.8	258.8	256.8	254.9	248.9	247.0
57.5°	3204.6	1645.8	308.2	272.6	264.7	256.8	256.8	250.9	243.0	243.0	243.0
60°	3421.9	1620.1	298.3	272.6	262.8	256.8	252.9	247.0	239.1	241.0	239.1
62.5°	3666.9	1570.7	292.4	278.6	264.7	254.9	250.9	243.0	233.1	235.1	233.1
65°	3882.3	1469.9	288.5	284.5	268.7	256.8	247.0	237.1	225.2	227.2	225.2
67.5°	4028.5	1300.0	276.6	288.5	274.6	254.9	243.0	229.2	213.4	221.3	219.3
70°	3987.0	1057.0	254.9	280.6	280.6	256.8	237.1	219.3	201.5	217.3	211.4
72.5°	3665.0	794.2	213.4	252.9	276.6	256.8	225.2	203.5	187.7	197.6	185.7
75°	3009.0	539.4	169.9	201.5	258.8	258.8	215.4	187.7	167.9	162.0	158.1
77.5°	1876.9	335.9	132.4	148.2	217.3	256.8	205.5	167.9	140.3	136.3	132.4
80°	742.9	179.8	104.7	106.7	160.0	235.1	191.6	142.3	112.6	108.7	100.8
82.5°	169.9	90.9	73.1	71.1	98.8	191.6	173.9	112.6	86.9	86.9	73.1
85°	51.4	47.4	47.4	45.4	49.4	98.8	134.3	77.1	59.3	41.5	35.6
87.5°	13.8	19.8	17.8	15.8	15.8	13.8	43.5	19.8	11.9	5.9	4.0
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)