

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: P595272

Luminaire Tested: **IST-PA1E-727-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595272
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-727-U-T2R
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 2700K, 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: 8638 lumens
Efficiency: N/A
Efficacy: 106.0 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

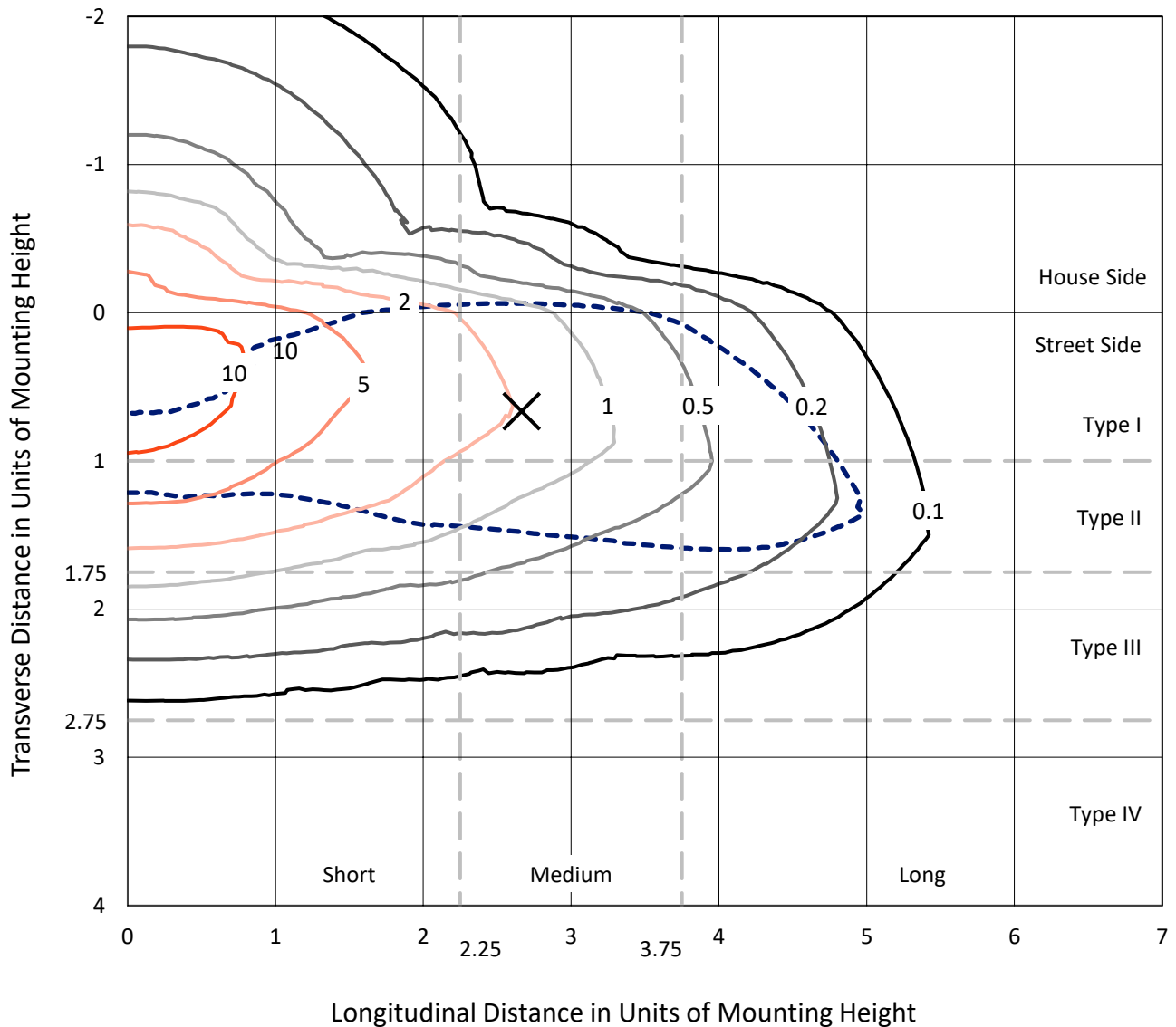
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: IST-PA1E-727-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

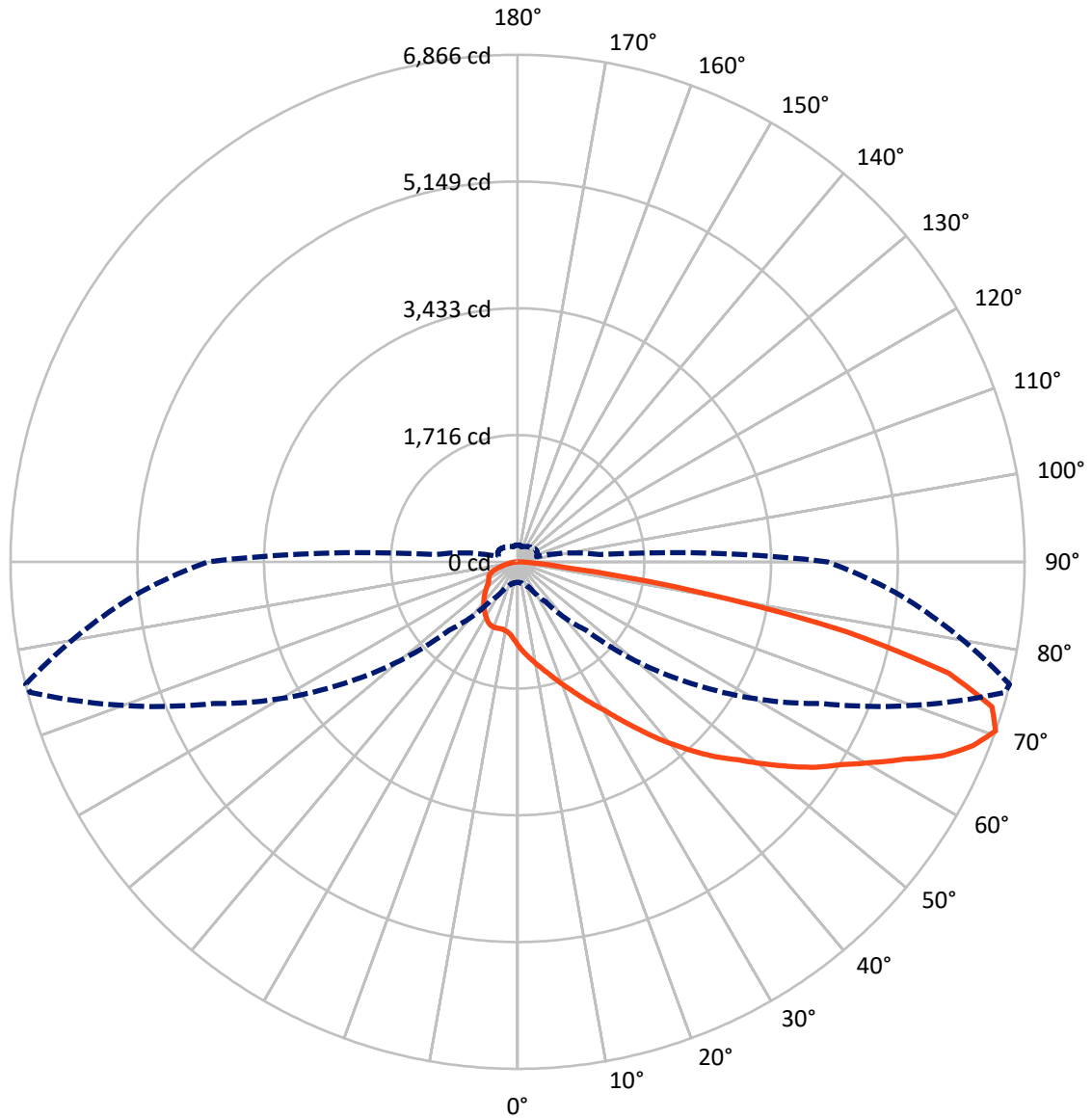
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 13.6 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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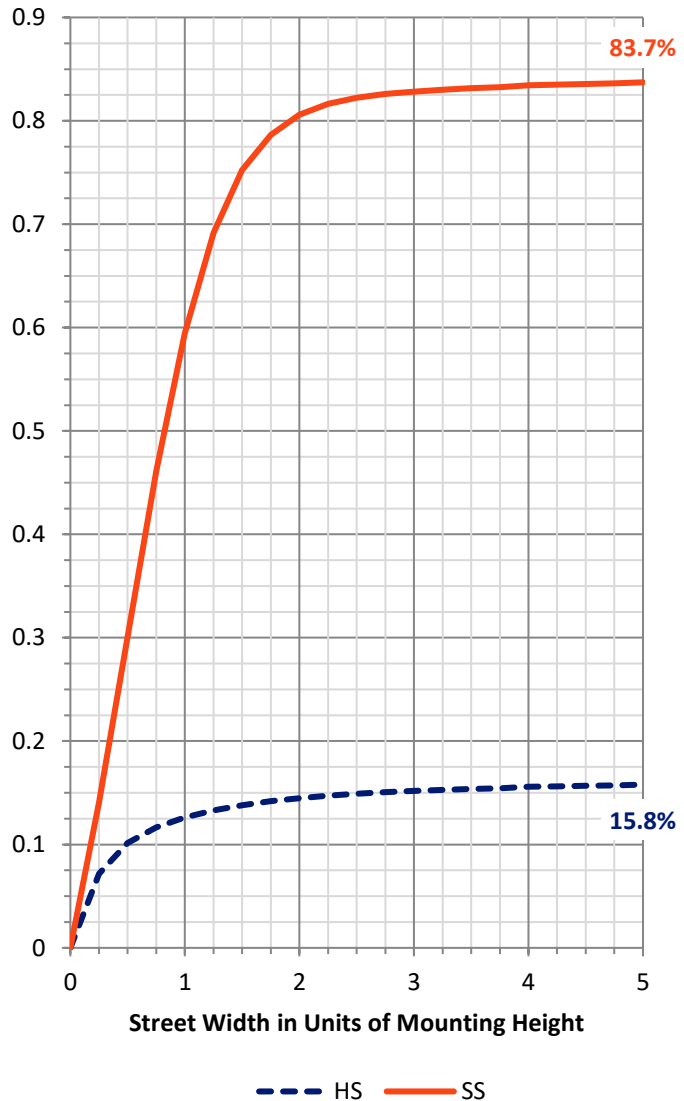
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1385.5	0.0	1385.5
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	7252.5	0.0	7252.5
	% Fixture	84.0	0.0	84.0
Total	Lumens	8638.0	0.0	8638.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.5	1.3
10°-20°	364.4	4.2
20°-30°	671.6	7.8
30°-40°	1125.3	13.0
40°-50°	1599.0	18.5
50°-60°	1846.1	21.4
60°-70°	1697.1	19.6
70°-80°	1070.1	12.4
80°-90°	153.9	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°	8638.0	100.0
0°-180°	8638.0	100.0

Coefficient of Utilization

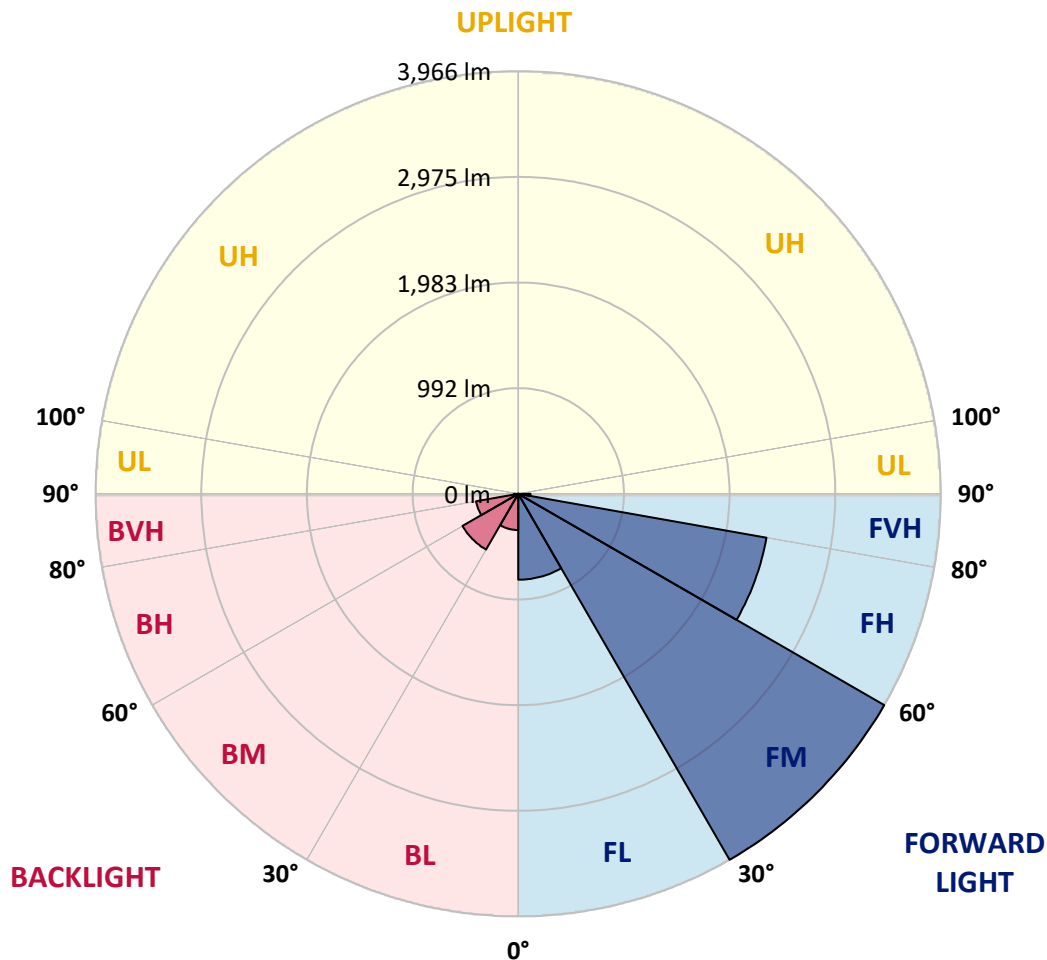


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	806.5	9.3			
FM (30°-60°)	3966.4	45.9			
FH (60°-80°)	2365.6	27.4			G2/5000
FVH (80°-90°)	114.1	1.3			G2/225
BL (0°-30°)	340.1	3.9	B1/500		
BM (30°-60°)	604.0	7.0	B1/1000		
BH (60°-80°)	401.5	4.6	B1/500		G1/500
BVH (80°-90°)	39.8	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°	1133.2	1133.2	1133.2	1133.2	1133.2	1133.2	1133.2	1133.2	1133.2	1133.2	1133.2
2.5°	1364.0	1361.9	1355.7	1345.3	1336.9	1312.0	1278.7	1249.6	1205.9	1201.8	1158.1
5°	1486.6	1478.3	1478.3	1467.9	1457.5	1430.5	1388.9	1336.9	1274.6	1270.4	1187.2
7.5°	1544.9	1546.9	1542.8	1534.5	1536.5	1513.7	1476.2	1424.3	1339.0	1334.9	1226.7
10°	1628.0	1626.0	1617.6	1611.4	1609.3	1588.5	1555.3	1507.4	1418.0	1409.7	1272.5
12.5°	1709.1	1702.9	1705.0	1702.9	1698.7	1677.9	1646.7	1598.9	1488.7	1484.6	1328.6
15°	1754.9	1752.8	1767.3	1771.5	1788.1	1769.4	1742.4	1688.3	1588.5	1571.9	1395.2
17.5°	1784.0	1781.9	1796.4	1829.7	1860.9	1860.9	1852.6	1794.4	1684.2	1671.7	1470.0
20°	1833.9	1842.2	1867.1	1894.2	1939.9	1948.2	1946.2	1921.2	1794.4	1781.9	1553.2
22.5°	1933.7	1929.5	1950.3	1991.9	2033.5	2046.0	2048.0	2048.0	1921.2	1898.3	1638.4
25°	2147.8	2137.4	2120.8	2116.6	2166.6	2164.5	2158.2	2172.8	2054.3	2037.6	1736.2
27.5°	2555.4	2532.5	2468.0	2339.1	2310.0	2320.4	2289.2	2291.3	2206.1	2185.3	1819.3
30°	2942.1	2931.7	2871.4	2715.5	2551.2	2493.0	2438.9	2416.1	2374.5	2339.1	1908.7
32.5°	3291.4	3293.5	3220.7	3050.2	2881.8	2698.8	2605.3	2557.4	2574.1	2542.9	2031.4
35°	3528.4	3509.7	3464.0	3349.6	3166.7	2992.0	2813.2	2707.1	2796.6	2761.2	2154.1
37.5°	3667.8	3653.2	3615.8	3534.7	3443.2	3274.8	3048.1	2886.0	3060.6	3008.6	2310.0
40°	3738.4	3717.7	3680.2	3647.0	3603.3	3511.8	3312.2	3089.7	3301.8	3256.1	2463.9
42.5°	3746.8	3732.2	3711.4	3694.8	3709.3	3696.9	3570.0	3326.8	3555.5	3505.6	2640.6
45°	3740.5	3750.9	3726.0	3696.9	3726.0	3832.0	3832.0	3563.8	3807.1	3769.6	2809.0
47.5°	3744.7	3734.3	3726.0	3717.7	3721.8	3867.4	4012.9	3786.3	4048.2	4004.6	3006.6
50°	3572.1	3586.7	3657.4	3688.5	3707.3	3875.7	4158.4	4027.5	4347.7	4293.6	3227.0
52.5°	3023.2	3031.5	3353.8	3586.7	3661.5	3842.4	4260.3	4295.7	4642.9	4601.3	3464.0
55°	2328.7	2372.4	2678.0	3247.7	3557.6	3786.3	4291.5	4470.3	4944.4	4911.1	3703.1
57.5°	1917.0	1923.3	2100.0	2609.4	3229.0	3734.3	4322.7	4630.4	5214.7	5177.3	3952.6
60°	1590.6	1576.1	1684.2	2012.7	2682.2	3526.4	4328.9	4757.3	5528.7	5516.2	4210.4
62.5°	1168.5	1185.2	1289.1	1567.7	2097.9	3104.3	4297.8	4865.4	5902.9	5886.3	4497.4
65°	717.3	738.1	865.0	1120.7	1588.5	2463.9	4094.0	4921.5	6295.9	6333.3	4807.2
67.5°	380.5	395.1	469.9	677.8	1089.5	1877.5	3603.3	4850.8	6628.6	6645.2	5104.5
70°	278.6	280.7	305.6	382.6	657.0	1305.8	2869.3	4543.1	6832.3	6865.6	5202.2
72.5°	243.3	245.3	255.7	274.5	357.6	796.3	2056.4	4006.7	6747.1	6718.0	5038.0
75°	220.4	220.4	228.7	235.0	262.0	440.8	1260.0	3278.9	6096.3	6031.8	4295.7
77.5°	189.2	189.2	197.5	205.8	226.6	284.9	659.1	2430.6	4661.6	4551.4	2937.9
80°	151.8	151.8	162.2	172.6	199.6	214.2	322.3	1626.0	2665.6	2503.4	1336.9
82.5°	104.0	112.3	131.0	143.5	166.3	151.8	189.2	702.8	840.0	727.7	301.5
85°	62.4	66.5	93.6	108.1	124.8	81.1	116.4	270.3	251.6	220.4	68.6
87.5°	6.2	10.4	37.4	43.7	43.7	22.9	49.9	64.5	72.8	74.9	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



REPORT NUMBER: P595272
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1133.2	1133.2	1133.2	1133.2	1133.2	1133.2	1133.2	1133.2	1133.2	1133.2	1133.2
2.5°	1133.2	1108.2	1060.4	1016.7	973.1	944.0	914.9	904.5	889.9	879.5	887.8
5°	1143.6	1091.6	1000.1	923.2	871.2	831.7	813.0	802.6	794.3	792.2	790.1
7.5°	1156.0	1079.1	956.4	871.2	821.3	802.6	798.4	798.4	798.4	800.5	802.6
10°	1183.1	1083.3	933.6	842.1	815.1	810.9	813.0	821.3	821.3	823.4	823.4
12.5°	1214.3	1093.7	916.9	837.9	821.3	823.4	825.5	829.6	829.6	835.8	833.8
15°	1260.0	1114.5	914.9	842.1	827.5	823.4	823.4	821.3	821.3	821.3	825.5
17.5°	1318.2	1143.6	916.9	842.1	821.3	813.0	806.7	800.5	792.2	796.3	792.2
20°	1376.4	1178.9	916.9	831.7	804.7	783.9	765.2	754.8	744.4	742.3	744.4
22.5°	1449.2	1220.5	906.5	808.8	769.3	740.2	713.2	698.6	682.0	675.7	671.6
25°	1511.6	1253.8	885.7	775.6	729.8	688.2	652.9	627.9	607.1	603.0	603.0
27.5°	1576.1	1282.9	854.6	734.0	673.7	627.9	588.4	557.2	536.4	534.4	532.3
30°	1636.3	1307.8	813.0	688.2	623.8	569.7	524.0	496.9	478.2	467.8	461.6
32.5°	1715.4	1341.1	773.5	642.5	565.5	511.5	469.9	447.0	422.1	405.4	399.2
35°	1815.2	1380.6	729.8	592.6	513.6	459.5	434.6	401.3	370.1	351.4	345.2
37.5°	1927.4	1436.7	684.1	540.6	461.6	422.1	407.5	355.5	322.3	316.0	314.0
40°	2066.7	1490.8	632.1	486.5	411.7	401.3	376.3	322.3	305.6	303.6	301.5
42.5°	2206.1	1549.0	582.2	432.5	372.2	376.3	341.0	314.0	299.4	295.2	293.2
45°	2368.2	1607.2	532.3	384.7	341.0	341.0	322.3	305.6	293.2	289.0	289.0
47.5°	2538.7	1665.5	478.2	343.1	318.1	305.6	307.7	295.2	286.9	282.8	280.7
50°	2752.9	1721.6	428.3	314.0	303.6	286.9	293.2	284.9	280.7	276.5	274.5
52.5°	2954.6	1746.5	382.6	297.3	295.2	278.6	280.7	276.5	274.5	268.2	266.1
55°	3152.1	1740.3	347.2	289.0	284.9	276.5	272.4	270.3	268.2	262.0	259.9
57.5°	3372.5	1732.0	324.4	286.9	278.6	270.3	270.3	264.1	255.7	255.7	255.7
60°	3601.2	1705.0	314.0	286.9	276.5	270.3	266.1	259.9	251.6	253.7	251.6
62.5°	3859.0	1653.0	307.7	293.2	278.6	268.2	264.1	255.7	245.3	247.4	245.3
65°	4085.7	1546.9	303.6	299.4	282.8	270.3	259.9	249.5	237.0	239.1	237.0
67.5°	4239.5	1368.1	291.1	303.6	289.0	268.2	255.7	241.2	224.6	232.9	230.8
70°	4195.9	1112.4	268.2	295.2	295.2	270.3	249.5	230.8	212.1	228.7	222.5
72.5°	3857.0	835.8	224.6	266.1	291.1	270.3	237.0	214.2	197.5	207.9	195.4
75°	3166.7	567.6	178.8	212.1	272.4	272.4	226.6	197.5	176.7	170.5	166.3
77.5°	1975.3	353.5	139.3	155.9	228.7	270.3	216.2	176.7	147.6	143.5	139.3
80°	781.8	189.2	110.2	112.3	168.4	247.4	201.7	149.7	118.5	114.4	106.0
82.5°	178.8	95.6	76.9	74.9	104.0	201.7	183.0	118.5	91.5	91.5	76.9
85°	54.1	49.9	49.9	47.8	52.0	104.0	141.4	81.1	62.4	43.7	37.4
87.5°	14.6	20.8	18.7	16.6	16.6	14.6	45.7	20.8	12.5	6.2	4.2
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)