

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: P595245

Luminaire Tested: **IST-PA1D-827-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595245
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-827-U-T2R
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 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: 6165 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

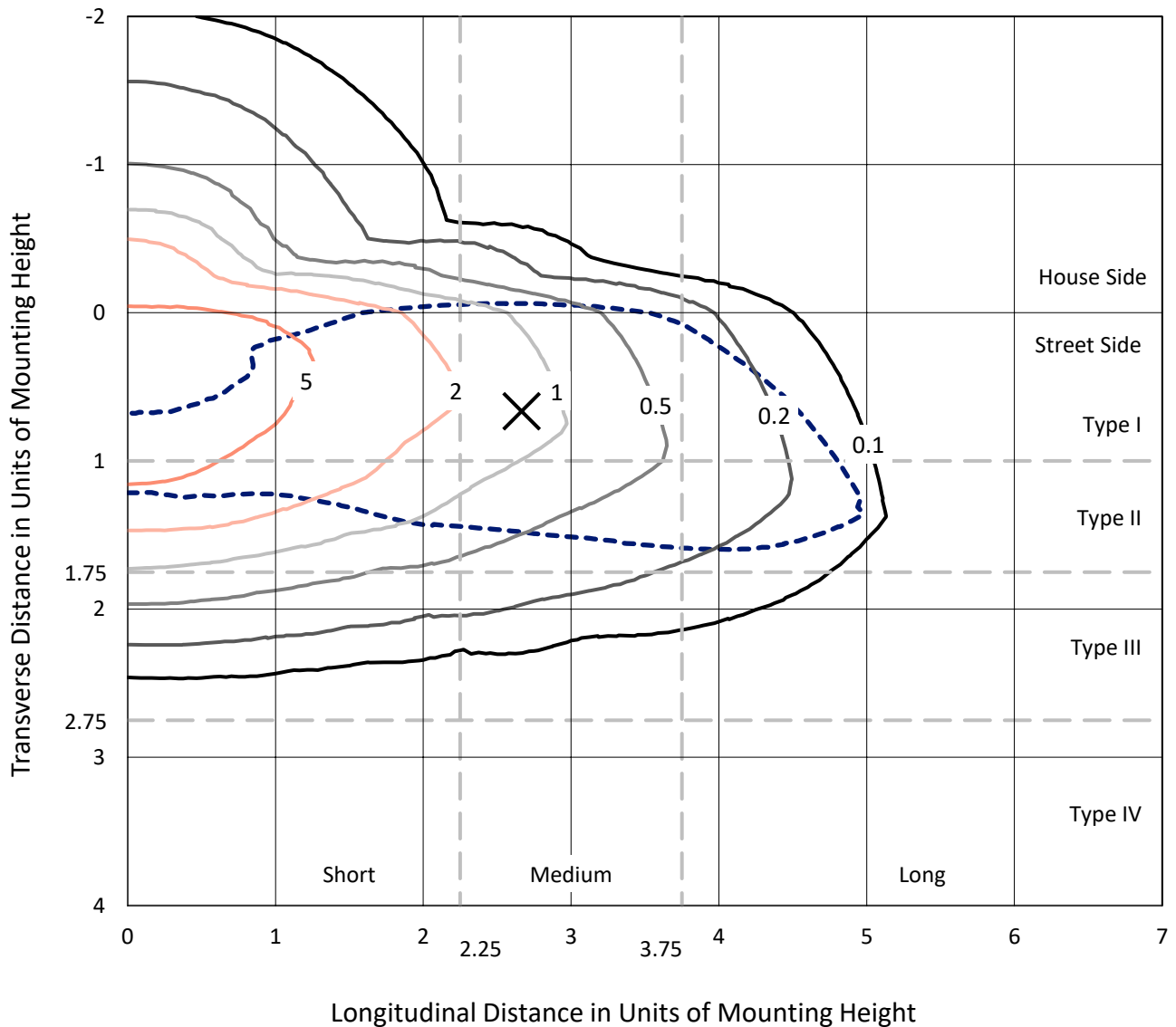
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

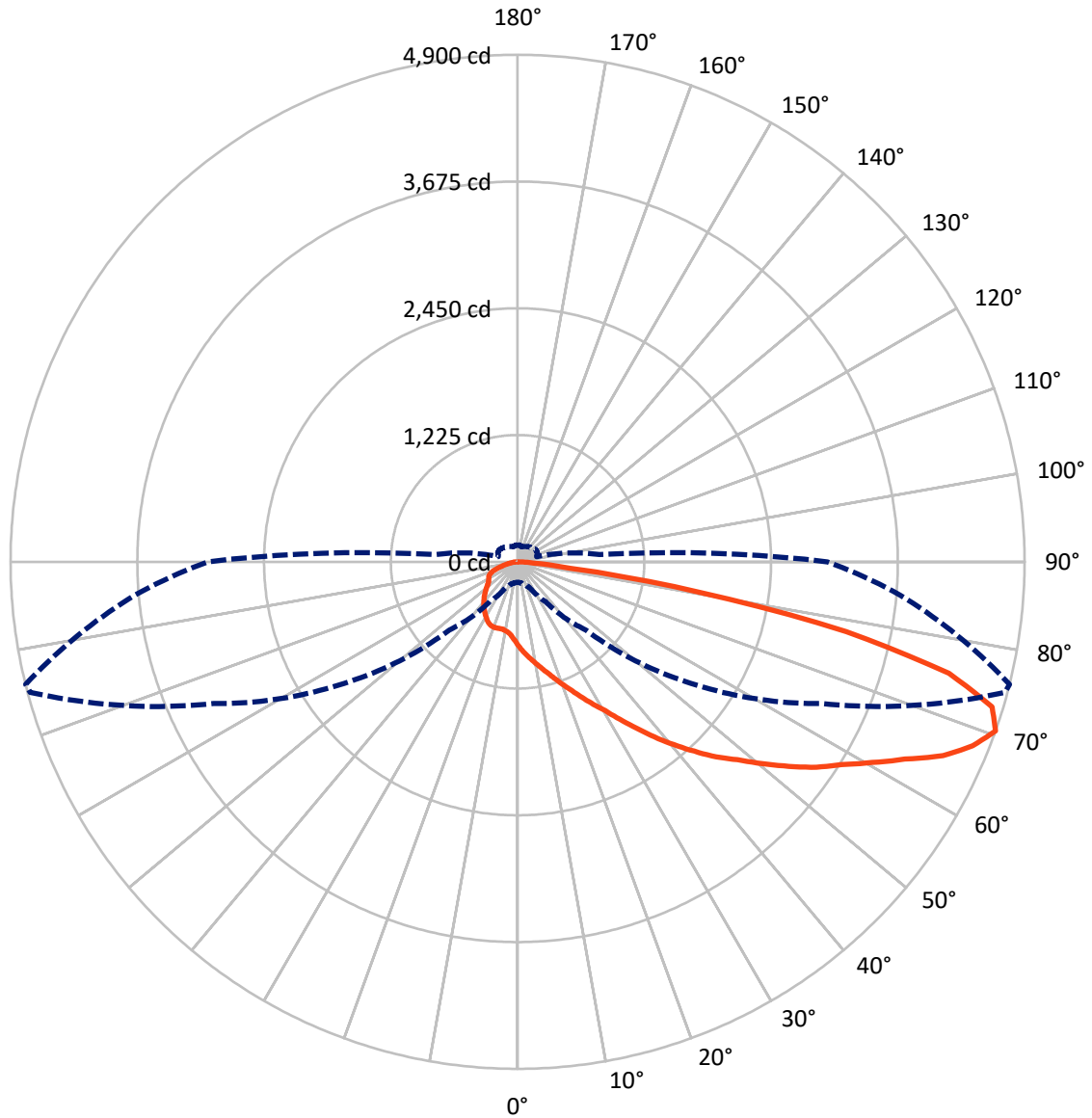
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9.7 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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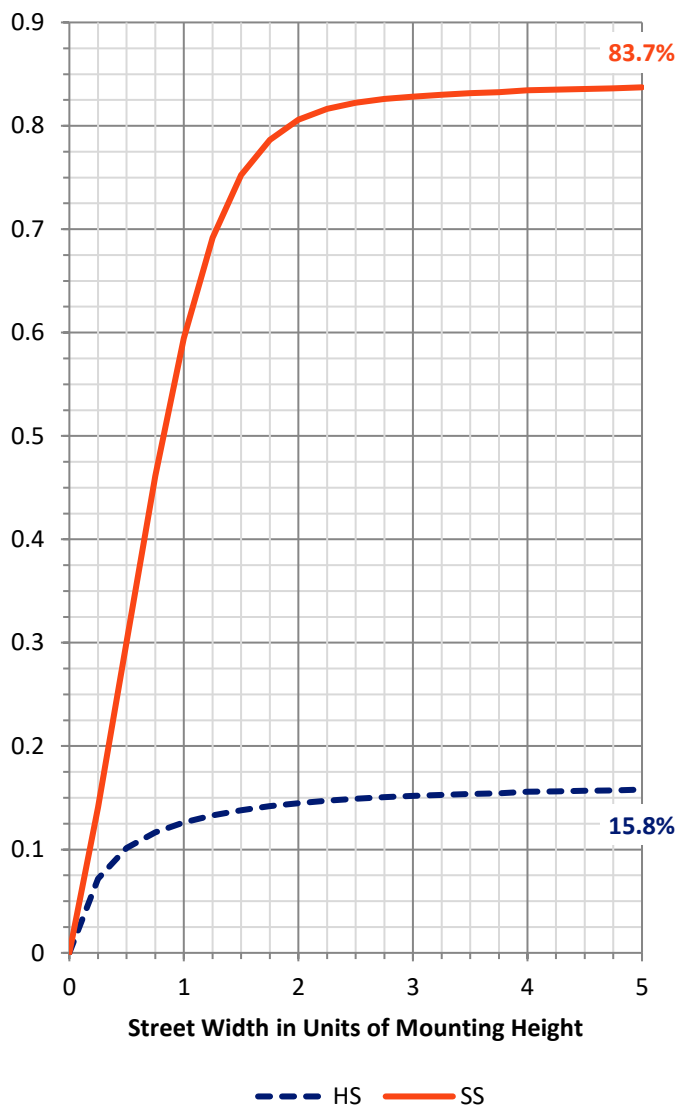
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	988.8	0.0	988.8
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	5176.2	0.0	5176.2
	% Fixture	84.0	0.0	84.0
Total	Lumens	6165.0	0.0	6165.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	1.3
10°-20°	260.1	4.2
20°-30°	479.4	7.8
30°-40°	803.1	13.0
40°-50°	1141.2	18.5
50°-60°	1317.6	21.4
60°-70°	1211.2	19.6
70°-80°	763.7	12.4
80°-90°	109.8	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°	6165.0	100.0
0°-180°	6165.0	100.0

Coefficient of Utilization

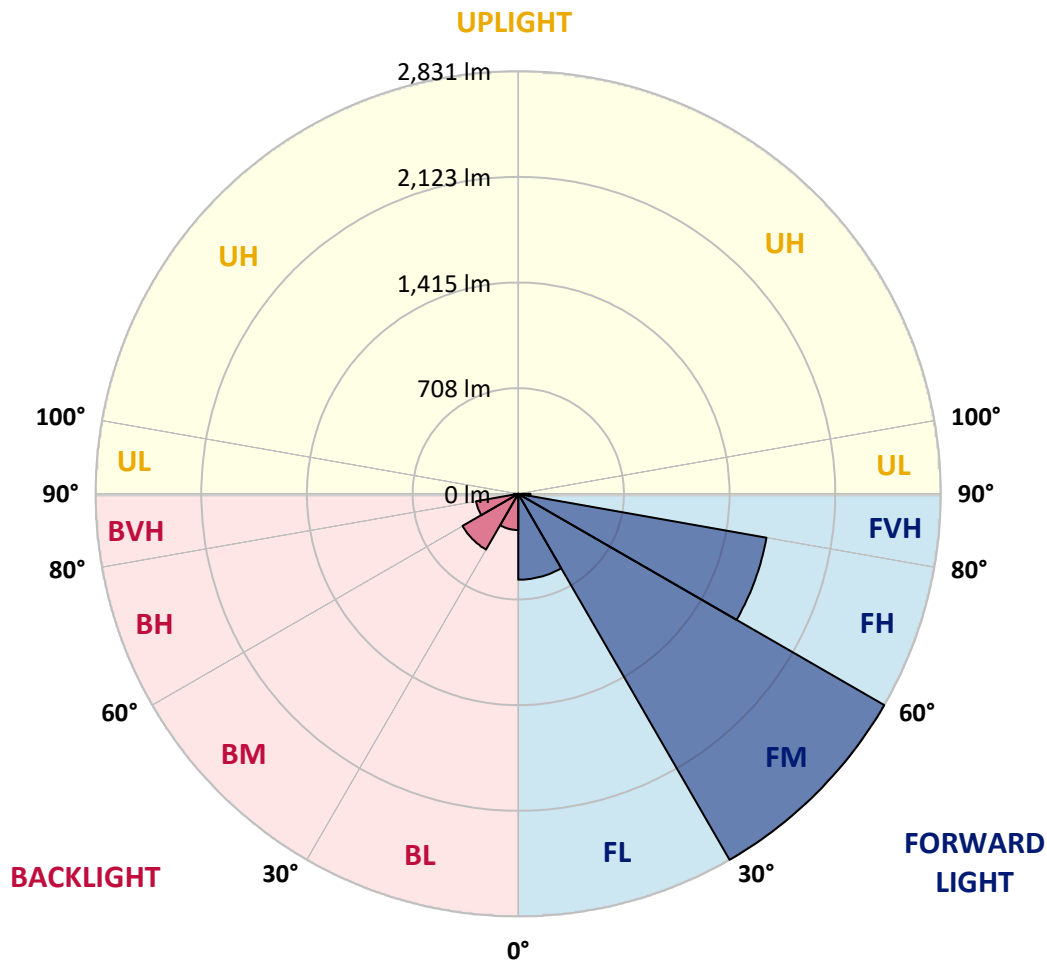


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	575.6	9.3			
FM (30°-60°)	2830.8	45.9			
FH (60°-80°)	1688.4	27.4			G1/1800
FVH (80°-90°)	81.4	1.3			G1/100
BL (0°-30°)	242.7	3.9	B1/500		
BM (30°-60°)	431.1	7.0	B1/1000		
BH (60°-80°)	286.6	4.6	B1/500		G1/500
BVH (80°-90°)	28.4	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-G1
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	808.8	808.8	808.8	808.8	808.8	808.8	808.8	808.8	808.8	808.8	808.8
2.5°	973.5	972.0	967.5	960.1	954.2	936.4	912.6	891.9	860.7	857.7	826.6
5°	1061.0	1055.1	1055.1	1047.7	1040.3	1021.0	991.3	954.2	909.7	906.7	847.3
7.5°	1102.6	1104.1	1101.1	1095.2	1096.6	1080.3	1053.6	1016.5	955.7	952.7	875.5
10°	1161.9	1160.5	1154.5	1150.1	1148.6	1133.7	1110.0	1075.9	1012.1	1006.1	908.2
12.5°	1219.8	1215.4	1216.8	1215.4	1212.4	1197.6	1175.3	1141.2	1062.5	1059.5	948.2
15°	1252.5	1251.0	1261.4	1264.3	1276.2	1262.8	1243.6	1205.0	1133.7	1121.9	995.7
17.5°	1273.2	1271.8	1282.1	1305.9	1328.1	1328.1	1322.2	1280.7	1202.0	1193.1	1049.2
20°	1308.8	1314.8	1332.6	1351.9	1384.5	1390.5	1389.0	1371.2	1280.7	1271.8	1108.5
22.5°	1380.1	1377.1	1392.0	1421.6	1451.3	1460.2	1461.7	1461.7	1371.2	1354.9	1169.4
25°	1532.9	1525.5	1513.6	1510.7	1546.3	1544.8	1540.3	1550.7	1466.1	1454.3	1239.1
27.5°	1823.8	1807.5	1761.5	1669.5	1648.7	1656.1	1633.8	1635.3	1574.5	1559.6	1298.5
30°	2099.8	2092.4	2049.3	1938.0	1820.8	1779.3	1740.7	1724.4	1694.7	1669.5	1362.3
32.5°	2349.1	2350.6	2298.6	2177.0	2056.8	1926.2	1859.4	1825.3	1837.1	1814.9	1449.8
35°	2518.3	2504.9	2472.3	2390.7	2260.1	2135.4	2007.8	1932.1	1995.9	1970.7	1537.4
37.5°	2617.7	2607.3	2580.6	2522.7	2457.4	2337.2	2175.5	2059.7	2184.4	2147.3	1648.7
40°	2668.2	2653.3	2626.6	2602.9	2571.7	2506.4	2363.9	2205.2	2356.5	2323.9	1758.5
42.5°	2674.1	2663.7	2648.9	2637.0	2647.4	2638.5	2548.0	2374.3	2537.6	2501.9	1884.6
45°	2669.6	2677.1	2659.2	2638.5	2659.2	2734.9	2734.9	2543.5	2717.1	2690.4	2004.8
47.5°	2672.6	2665.2	2659.2	2653.3	2656.3	2760.2	2864.0	2702.3	2889.3	2858.1	2145.8
50°	2549.4	2559.8	2610.3	2632.5	2645.9	2766.1	2967.9	2874.4	3103.0	3064.4	2303.1
52.5°	2157.7	2163.6	2393.6	2559.8	2613.2	2742.4	3040.6	3065.9	3313.7	3284.0	2472.3
55°	1662.0	1693.2	1911.3	2317.9	2539.0	2702.3	3062.9	3190.5	3528.8	3505.1	2642.9
57.5°	1368.2	1372.7	1498.8	1862.4	2304.6	2665.2	3085.1	3304.8	3721.8	3695.1	2821.0
60°	1135.2	1124.8	1202.0	1436.5	1914.3	2516.8	3089.6	3395.3	3945.8	3936.9	3005.0
62.5°	834.0	845.9	920.1	1118.9	1497.3	2215.5	3067.3	3472.5	4213.0	4201.1	3209.8
65°	512.0	526.8	617.3	799.9	1133.7	1758.5	2921.9	3512.5	4493.4	4520.1	3430.9
67.5°	271.6	282.0	335.4	483.8	777.6	1340.0	2571.7	3462.1	4730.9	4742.7	3643.1
70°	198.9	200.3	218.1	273.0	468.9	931.9	2047.9	3242.4	4876.3	4900.0	3712.9
72.5°	173.6	175.1	182.5	195.9	255.2	568.4	1467.6	2859.6	4815.4	4794.7	3595.6
75°	157.3	157.3	163.2	167.7	187.0	314.6	899.3	2340.2	4351.0	4305.0	3065.9
77.5°	135.0	135.0	141.0	146.9	161.8	203.3	470.4	1734.7	3327.0	3248.4	2096.8
80°	108.3	108.3	115.7	123.2	142.5	152.8	230.0	1160.5	1902.4	1786.7	954.2
82.5°	74.2	80.1	93.5	102.4	118.7	108.3	135.0	501.6	599.5	519.4	215.2
85°	44.5	47.5	66.8	77.2	89.0	57.9	83.1	192.9	179.6	157.3	49.0
87.5°	4.5	7.4	26.7	31.2	31.2	16.3	35.6	46.0	51.9	53.4	11.9
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°	808.8	808.8	808.8	808.8	808.8	808.8	808.8	808.8	808.8	808.8	808.8
2.5°	808.8	790.9	756.8	725.7	694.5	673.7	652.9	645.5	635.1	627.7	633.6
5°	816.2	779.1	713.8	658.9	621.8	593.6	580.2	572.8	566.9	565.4	563.9
7.5°	825.1	770.2	682.6	621.8	586.2	572.8	569.8	569.8	569.8	571.3	572.8
10°	844.4	773.1	666.3	601.0	581.7	578.7	580.2	586.2	586.2	587.6	587.6
12.5°	866.6	780.6	654.4	598.0	586.2	587.6	589.1	592.1	592.1	596.6	595.1
15°	899.3	795.4	652.9	601.0	590.6	587.6	587.6	586.2	586.2	586.2	589.1
17.5°	940.8	816.2	654.4	601.0	586.2	580.2	575.8	571.3	565.4	568.4	565.4
20°	982.4	841.4	654.4	593.6	574.3	559.5	546.1	538.7	531.3	529.8	531.3
22.5°	1034.3	871.1	647.0	577.3	549.1	528.3	509.0	498.6	486.7	482.3	479.3
25°	1078.8	894.8	632.2	553.5	520.9	491.2	466.0	448.2	433.3	430.3	430.3
27.5°	1124.8	915.6	609.9	523.8	480.8	448.2	420.0	397.7	382.9	381.4	379.9
30°	1167.9	933.4	580.2	491.2	445.2	406.6	374.0	354.7	341.3	333.9	329.4
32.5°	1224.3	957.2	552.0	458.5	403.6	365.1	335.4	319.1	301.2	289.4	284.9
35°	1295.5	985.3	520.9	422.9	366.5	328.0	310.1	286.4	264.1	250.8	246.3
37.5°	1375.6	1025.4	488.2	385.8	329.4	301.2	290.9	253.8	230.0	225.6	224.1
40°	1475.1	1064.0	451.1	347.2	293.8	286.4	268.6	230.0	218.1	216.7	215.2
42.5°	1574.5	1105.5	415.5	308.7	265.6	268.6	243.4	224.1	213.7	210.7	209.2
45°	1690.2	1147.1	379.9	274.5	243.4	243.4	230.0	218.1	209.2	206.3	206.3
47.5°	1811.9	1188.6	341.3	244.9	227.0	218.1	219.6	210.7	204.8	201.8	200.3
50°	1964.8	1228.7	305.7	224.1	216.7	204.8	209.2	203.3	200.3	197.4	195.9
52.5°	2108.7	1246.5	273.0	212.2	210.7	198.9	200.3	197.4	195.9	191.4	189.9
55°	2249.7	1242.1	247.8	206.3	203.3	197.4	194.4	192.9	191.4	187.0	185.5
57.5°	2407.0	1236.1	231.5	204.8	198.9	192.9	192.9	188.5	182.5	182.5	182.5
60°	2570.2	1216.8	224.1	204.8	197.4	192.9	189.9	185.5	179.6	181.0	179.6
62.5°	2754.2	1179.7	219.6	209.2	198.9	191.4	188.5	182.5	175.1	176.6	175.1
65°	2916.0	1104.1	216.7	213.7	201.8	192.9	185.5	178.1	169.2	170.7	169.2
67.5°	3025.8	976.4	207.8	216.7	206.3	191.4	182.5	172.1	160.3	166.2	164.7
70°	2994.6	793.9	191.4	210.7	210.7	192.9	178.1	164.7	151.4	163.2	158.8
72.5°	2752.7	596.6	160.3	189.9	207.8	192.9	169.2	152.8	141.0	148.4	139.5
75°	2260.1	405.1	127.6	151.4	194.4	194.4	161.8	141.0	126.1	121.7	118.7
77.5°	1409.8	252.3	99.4	111.3	163.2	192.9	154.3	126.1	105.4	102.4	99.4
80°	558.0	135.0	78.6	80.1	120.2	176.6	143.9	106.8	84.6	81.6	75.7
82.5°	127.6	68.3	54.9	53.4	74.2	143.9	130.6	84.6	65.3	65.3	54.9
85°	38.6	35.6	35.6	34.1	37.1	74.2	100.9	57.9	44.5	31.2	26.7
87.5°	10.4	14.8	13.4	11.9	11.9	10.4	32.6	14.8	8.9	4.5	3.0
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)