

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: P595191

Luminaire Tested: **IST-PA1D-727-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595191
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-727-U-T2R
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 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: 7013 lumens
Efficiency: N/A
Efficacy: 112.4 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

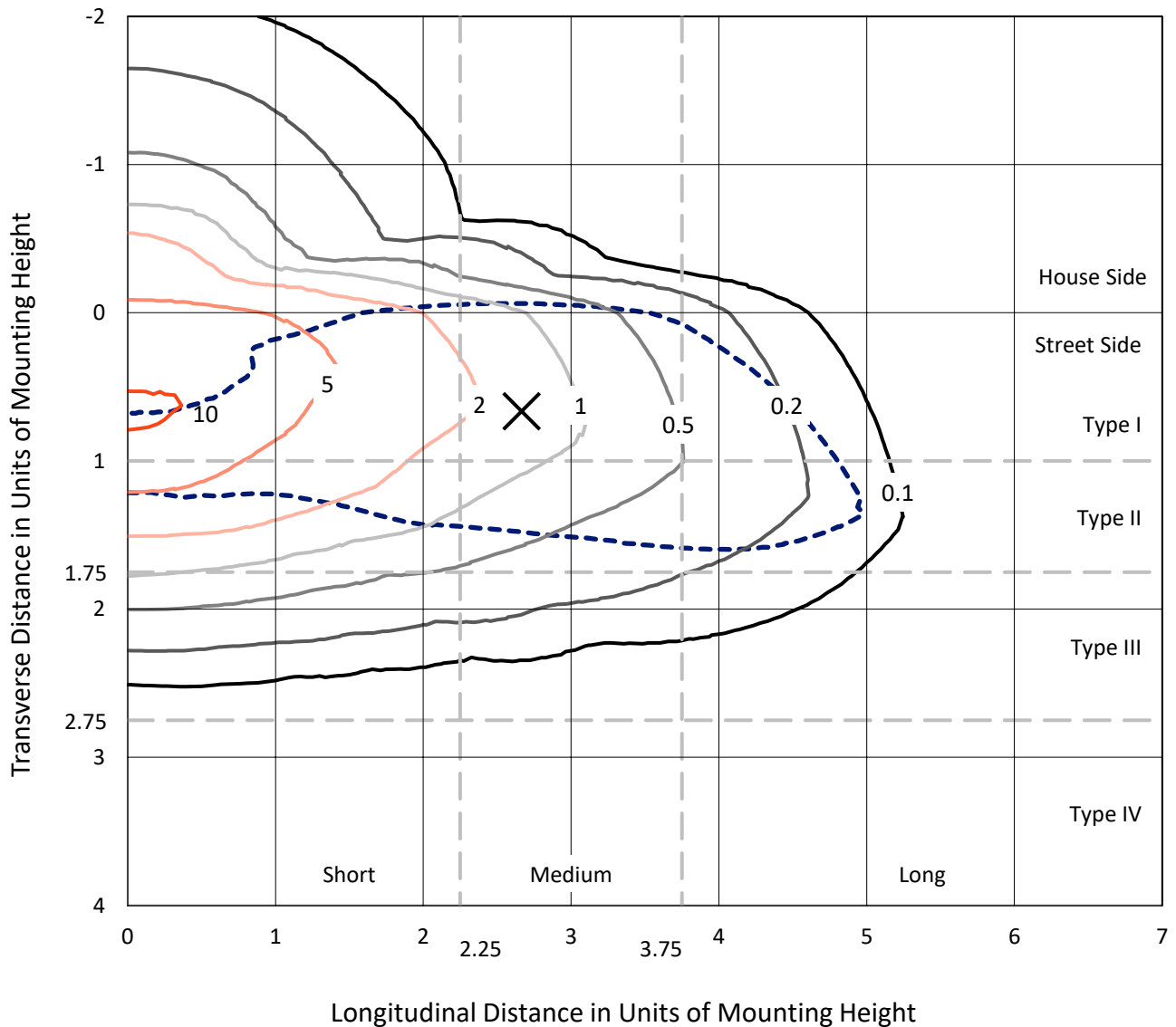




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Iso-Footcandle Lines of Horizontal Illumination

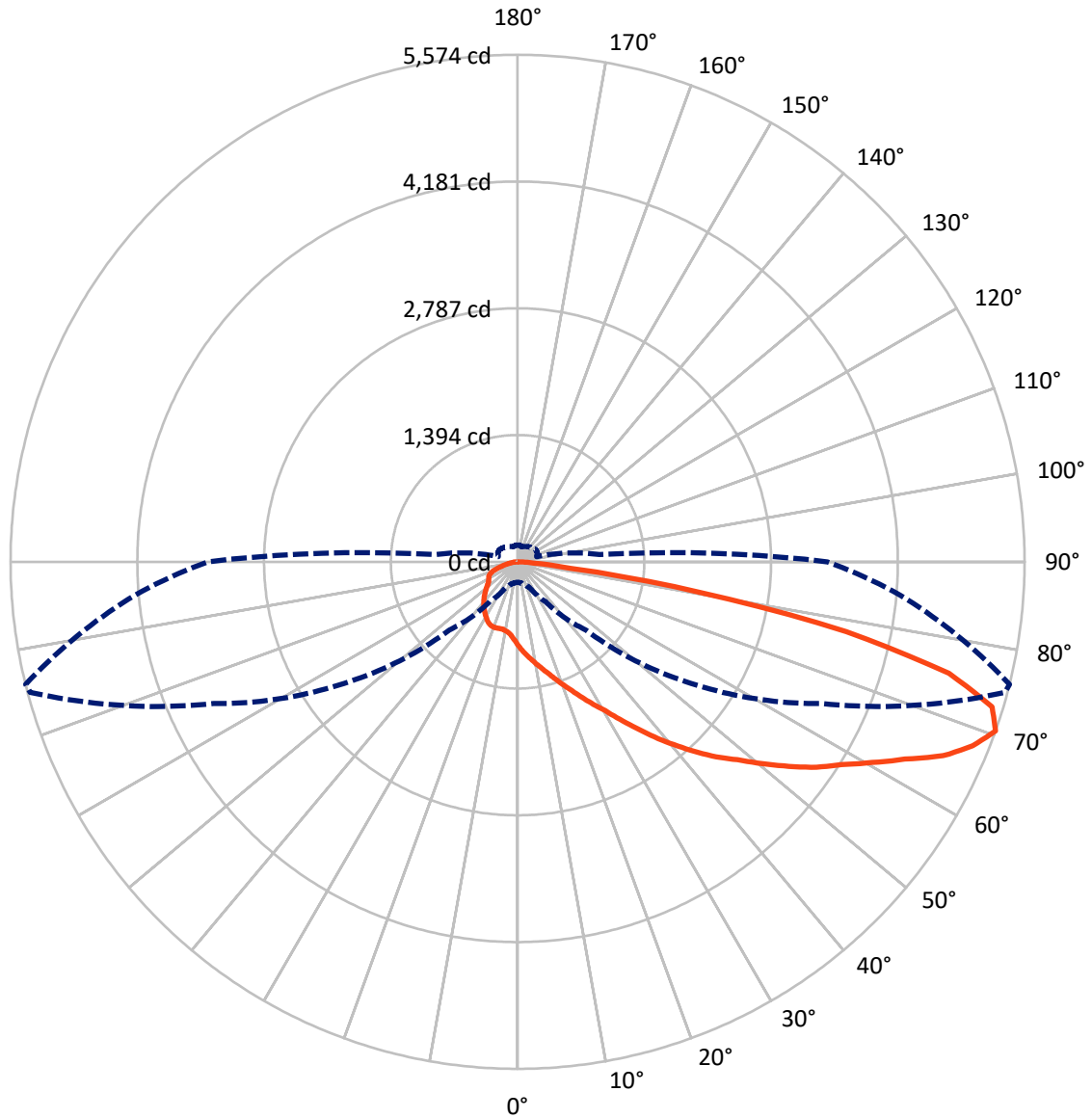
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 11.1 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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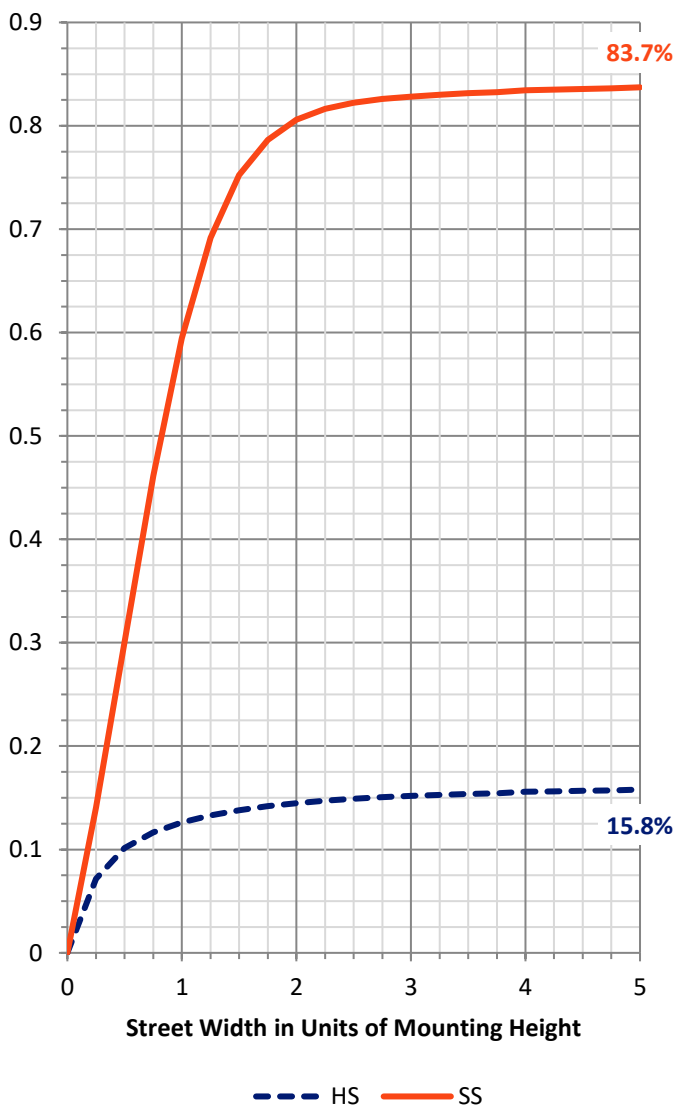
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1124.8	0.0	1124.8
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	5888.2	0.0	5888.2
	% Fixture	84.0	0.0	84.0
Total	Lumens	7013.0	0.0	7013.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	1.3
10°-20°	295.9	4.2
20°-30°	545.3	7.8
30°-40°	913.6	13.0
40°-50°	1298.2	18.5
50°-60°	1498.8	21.4
60°-70°	1377.8	19.6
70°-80°	868.8	12.4
80°-90°	125.0	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°	7013.0	100.0
0°-180°	7013.0	100.0

Coefficient of Utilization

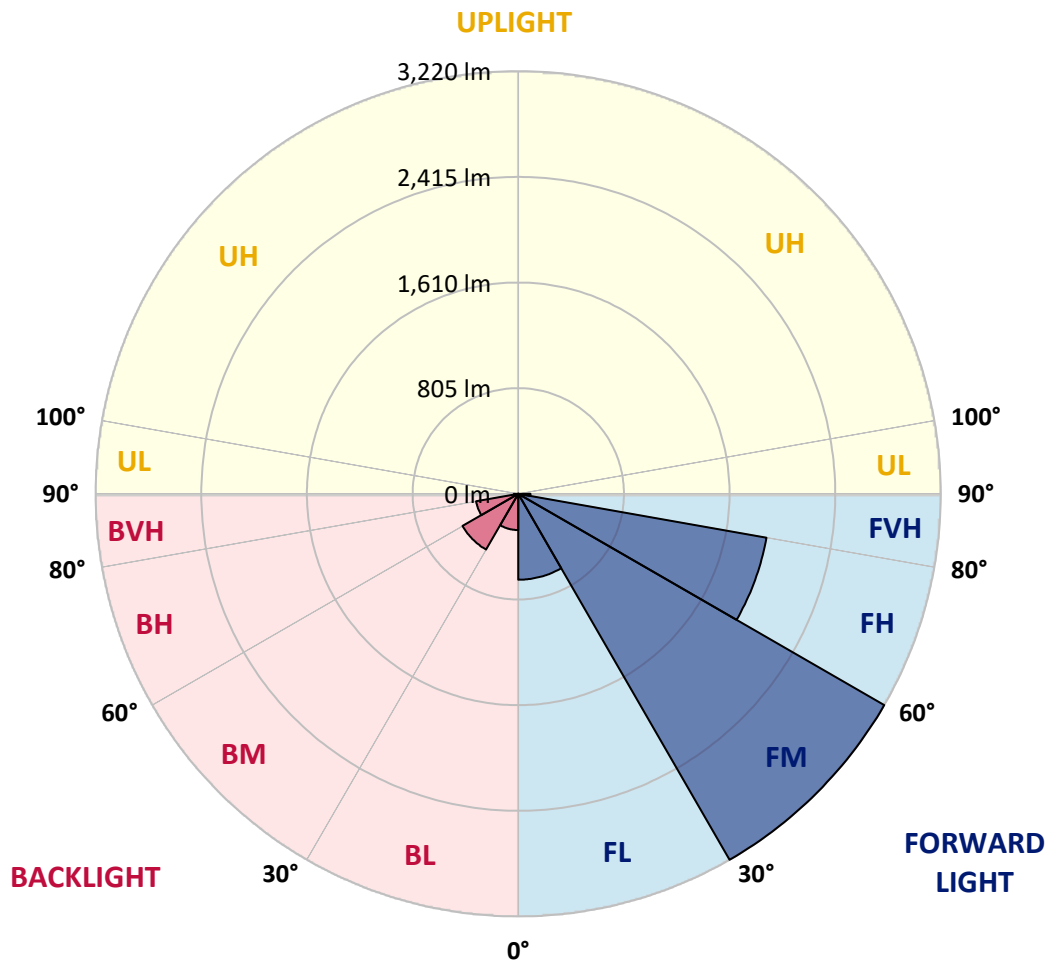


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	654.7	9.3			
FM (30°-60°)	3220.2	45.9			
FH (60°-80°)	1920.6	27.4			G2/5000
FVH (80°-90°)	92.6	1.3			G1/100
BL (0°-30°)	276.1	3.9	B1/500		
BM (30°-60°)	490.4	7.0	B1/1000		
BH (60°-80°)	326.0	4.6	B1/500		G1/500
BVH (80°-90°)	32.3	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°	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0
2.5°	1107.4	1105.7	1100.6	1092.2	1085.4	1065.2	1038.2	1014.5	979.1	975.7	940.3
5°	1207.0	1200.2	1200.2	1191.8	1183.3	1161.4	1127.6	1085.4	1034.8	1031.4	963.9
7.5°	1254.2	1255.9	1252.6	1245.8	1247.5	1228.9	1198.5	1156.3	1087.1	1083.7	996.0
10°	1321.8	1320.1	1313.3	1308.3	1306.6	1289.7	1262.7	1223.9	1151.3	1144.5	1033.1
12.5°	1387.6	1382.5	1384.2	1382.5	1379.2	1362.3	1337.0	1298.1	1208.7	1205.3	1078.7
15°	1424.7	1423.0	1434.9	1438.2	1451.7	1436.6	1414.6	1370.7	1289.7	1276.2	1132.7
17.5°	1448.4	1446.7	1458.5	1485.5	1510.8	1510.8	1504.1	1456.8	1367.3	1357.2	1193.5
20°	1488.9	1495.6	1515.9	1537.8	1575.0	1581.7	1580.0	1559.8	1456.8	1446.7	1261.0
22.5°	1569.9	1566.5	1583.4	1617.2	1650.9	1661.1	1662.8	1662.8	1559.8	1541.2	1330.2
25°	1743.8	1735.3	1721.8	1718.5	1759.0	1757.3	1752.2	1764.0	1667.8	1654.3	1409.5
27.5°	2074.6	2056.1	2003.7	1899.1	1875.5	1883.9	1858.6	1860.3	1791.0	1774.2	1477.1
30°	2388.6	2380.2	2331.2	2204.6	2071.3	2024.0	1980.1	1961.5	1927.8	1899.1	1549.7
32.5°	2672.2	2673.9	2614.8	2476.4	2339.7	2191.1	2115.2	2076.3	2089.8	2064.5	1649.2
35°	2864.7	2849.5	2812.3	2719.5	2570.9	2429.1	2284.0	2197.9	2270.5	2241.8	1748.8
37.5°	2977.8	2965.9	2935.6	2869.7	2795.5	2658.7	2474.7	2343.0	2484.8	2442.6	1875.5
40°	3035.2	3018.3	2987.9	2960.9	2925.4	2851.2	2689.1	2508.5	2680.7	2643.5	2000.4
42.5°	3041.9	3030.1	3013.2	2999.7	3011.5	3001.4	2898.4	2700.9	2886.6	2846.1	2143.9
45°	3036.8	3045.3	3025.0	3001.4	3025.0	3111.1	3111.1	2893.4	3090.9	3060.5	2280.6
47.5°	3040.2	3031.8	3025.0	3018.3	3021.7	3139.8	3258.0	3074.0	3286.7	3251.2	2441.0
50°	2900.1	2911.9	2969.3	2994.6	3009.8	3146.6	3376.2	3269.8	3529.8	3485.9	2619.9
52.5°	2454.5	2461.2	2722.9	2911.9	2972.7	3119.6	3458.9	3487.6	3769.5	3735.7	2812.3
55°	1890.6	1926.1	2174.2	2636.8	2888.3	3074.0	3484.2	3629.4	4014.2	3987.2	3006.5
57.5°	1556.4	1561.5	1705.0	2118.5	2621.6	3031.8	3509.5	3759.3	4233.7	4203.3	3209.0
60°	1291.4	1279.6	1367.3	1634.1	2177.6	2863.0	3514.6	3862.3	4488.6	4478.5	3418.4
62.5°	948.7	962.2	1046.6	1272.8	1703.3	2520.3	3489.3	3950.1	4792.4	4778.9	3651.3
65°	582.4	599.3	702.2	909.9	1289.7	2000.4	3323.8	3995.7	5111.5	5141.9	3902.8
67.5°	308.9	320.7	381.5	550.3	884.6	1524.3	2925.4	3938.3	5381.6	5395.1	4144.2
70°	226.2	227.9	248.1	310.6	533.4	1060.1	2329.5	3688.4	5547.0	5574.0	4223.6
72.5°	197.5	199.2	207.6	222.8	290.3	646.5	1669.5	3252.9	5477.8	5454.2	4090.2
75°	178.9	178.9	185.7	190.8	212.7	357.9	1023.0	2662.1	4949.4	4897.1	3487.6
77.5°	153.6	153.6	160.4	167.1	184.0	231.3	535.1	1973.4	3784.7	3695.2	2385.3
80°	123.2	123.2	131.7	140.1	162.1	173.9	261.7	1320.1	2164.1	2032.4	1085.4
82.5°	84.4	91.2	106.3	116.5	135.0	123.2	153.6	570.6	682.0	590.8	244.8
85°	50.6	54.0	76.0	87.8	101.3	65.8	94.5	219.4	204.3	178.9	55.7
87.5°	5.1	8.4	30.4	35.4	35.4	18.6	40.5	52.3	59.1	60.8	13.5
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°	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0
2.5°	920.0	899.7	860.9	825.5	790.0	766.4	742.8	734.3	722.5	714.1	720.8
5°	928.4	886.2	812.0	749.5	707.3	675.2	660.0	651.6	644.8	643.2	641.5
7.5°	938.6	876.1	776.5	707.3	666.8	651.6	648.2	648.2	648.2	649.9	651.6
10°	960.5	879.5	757.9	683.7	661.7	658.3	660.0	666.8	666.8	668.5	668.5
12.5°	985.8	887.9	744.4	680.3	666.8	668.5	670.2	673.5	673.5	678.6	676.9
15°	1023.0	904.8	742.8	683.7	671.9	668.5	668.5	666.8	666.8	666.8	670.2
17.5°	1070.2	928.4	744.4	683.7	666.8	660.0	655.0	649.9	643.2	646.5	643.2
20°	1117.5	957.1	744.4	675.2	653.3	636.4	621.2	612.8	604.3	602.6	604.3
22.5°	1176.6	990.9	736.0	656.7	624.6	601.0	579.0	567.2	553.7	548.6	545.2
25°	1227.2	1017.9	719.1	629.7	592.5	558.8	530.1	509.8	492.9	489.5	489.5
27.5°	1279.6	1041.5	693.8	595.9	546.9	509.8	477.7	452.4	435.5	433.8	432.1
30°	1328.5	1061.8	660.0	558.8	506.4	462.5	425.4	403.4	388.3	379.8	374.8
32.5°	1392.7	1088.8	628.0	521.6	459.2	415.3	381.5	362.9	342.7	329.2	324.1
35°	1473.7	1120.9	592.5	481.1	417.0	373.1	352.8	325.8	300.5	285.3	280.2
37.5°	1564.8	1166.5	555.4	438.9	374.8	342.7	330.9	288.7	261.7	256.6	254.9
40°	1677.9	1210.3	513.2	395.0	334.2	325.8	305.5	261.7	248.1	246.5	244.8
42.5°	1791.0	1257.6	472.7	351.1	302.2	305.5	276.8	254.9	243.1	239.7	238.0
45°	1922.7	1304.9	432.1	312.3	276.8	276.8	261.7	248.1	238.0	234.6	234.6
47.5°	2061.1	1352.1	388.3	278.5	258.3	248.1	249.8	239.7	233.0	229.6	227.9
50°	2235.0	1397.7	347.7	254.9	246.5	233.0	238.0	231.3	227.9	224.5	222.8
52.5°	2398.8	1418.0	310.6	241.4	239.7	226.2	227.9	224.5	222.8	217.8	216.1
55°	2559.1	1412.9	281.9	234.6	231.3	224.5	221.1	219.4	217.8	212.7	211.0
57.5°	2738.1	1406.2	263.3	233.0	226.2	219.4	219.4	214.4	207.6	207.6	207.6
60°	2923.7	1384.2	254.9	233.0	224.5	219.4	216.1	211.0	204.3	205.9	204.3
62.5°	3133.1	1342.0	249.8	238.0	226.2	217.8	214.4	207.6	199.2	200.9	199.2
65°	3317.1	1255.9	246.5	243.1	229.6	219.4	211.0	202.6	192.4	194.1	192.4
67.5°	3442.0	1110.8	236.3	246.5	234.6	217.8	207.6	195.8	182.3	189.1	187.4
70°	3406.5	903.1	217.8	239.7	239.7	219.4	202.6	187.4	172.2	185.7	180.6
72.5°	3131.4	678.6	182.3	216.1	236.3	219.4	192.4	173.9	160.4	168.8	158.7
75°	2570.9	460.8	145.2	172.2	221.1	221.1	184.0	160.4	143.5	138.4	135.0
77.5°	1603.7	287.0	113.1	126.6	185.7	219.4	175.6	143.5	119.9	116.5	113.1
80°	634.7	153.6	89.5	91.2	136.7	200.9	163.7	121.5	96.2	92.8	86.1
82.5°	145.2	77.7	62.5	60.8	84.4	163.7	148.6	96.2	74.3	74.3	62.5
85°	43.9	40.5	40.5	38.8	42.2	84.4	114.8	65.8	50.6	35.4	30.4
87.5°	11.8	16.9	15.2	13.5	13.5	11.8	37.1	16.9	10.1	5.1	3.4
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)