

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: P595038

Luminaire Tested: **IST-PA1B-730-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595038
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-PA1B-730-U-T2R
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4746 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

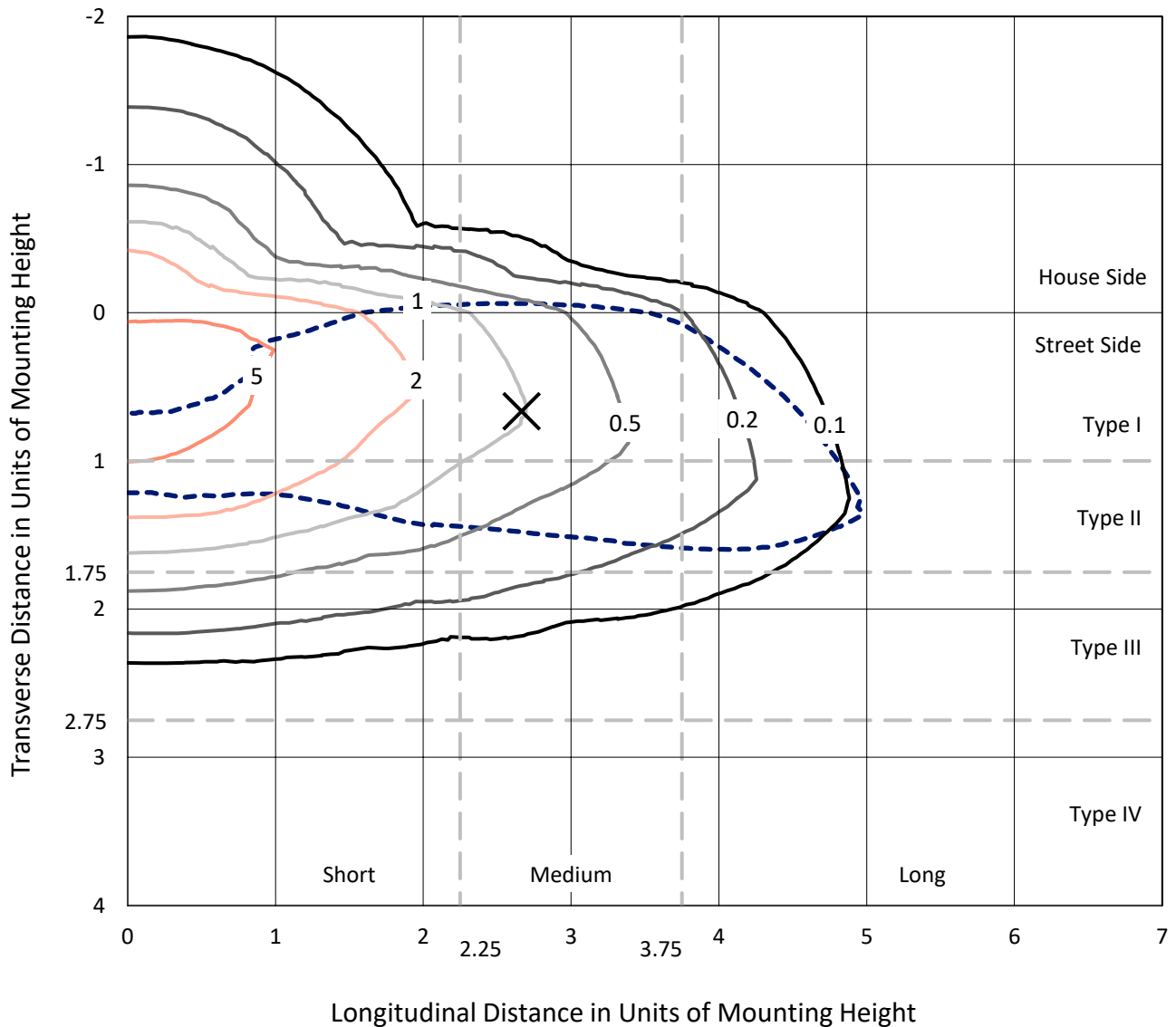
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

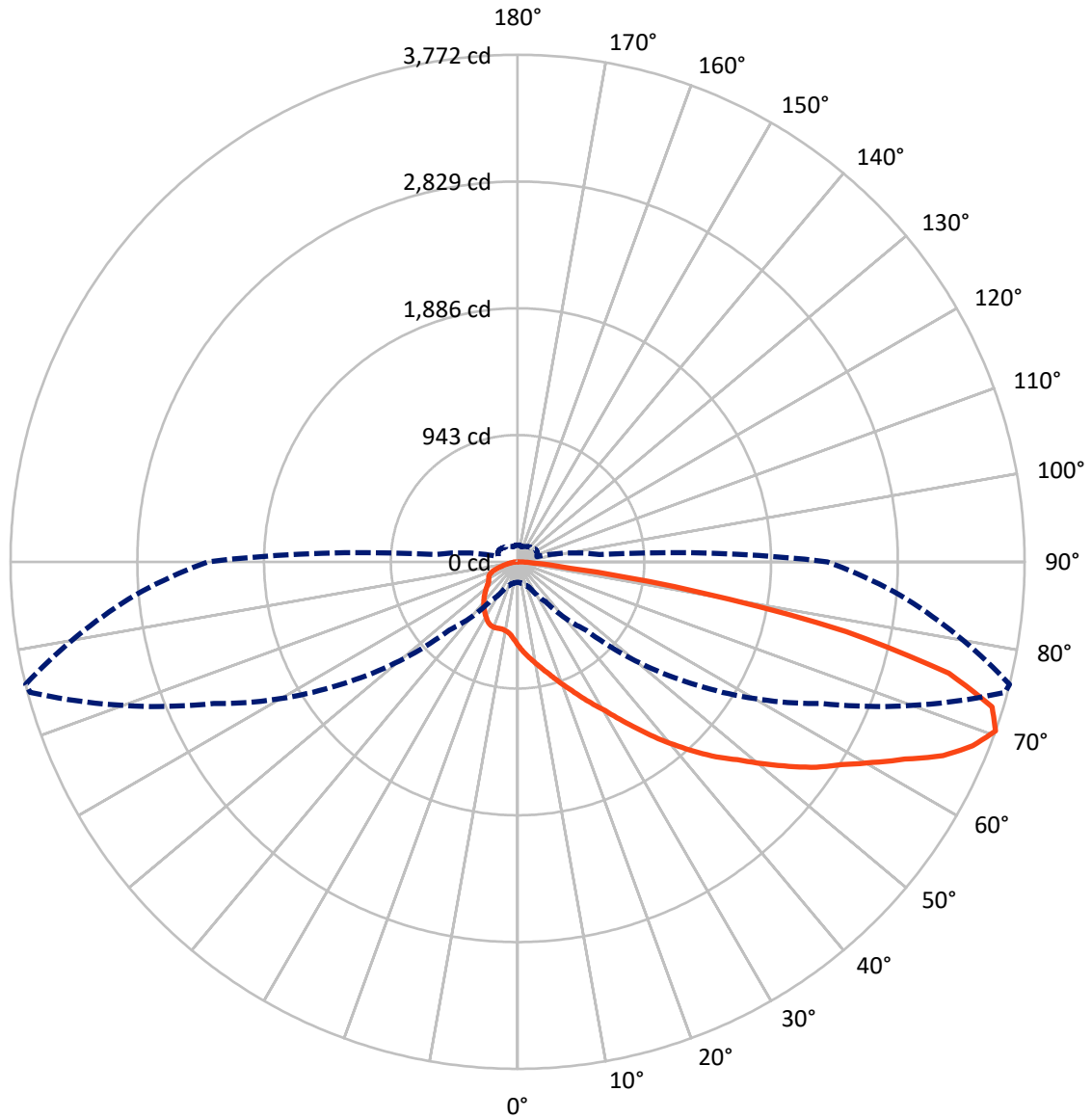
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.5 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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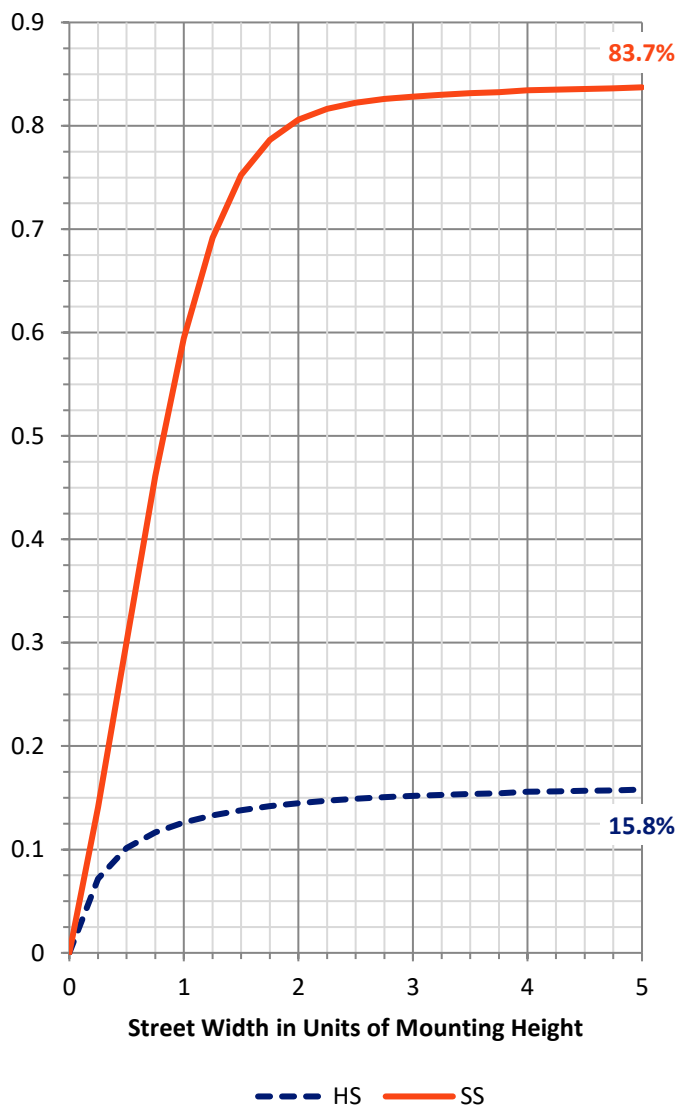
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	761.2	0.0	761.2
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	3984.8	0.0	3984.8
	% Fixture	84.0	0.0	84.0
Total	Lumens	4746.0	0.0	4746.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	1.3
10°-20°	200.2	4.2
20°-30°	369.0	7.8
30°-40°	618.3	13.0
40°-50°	878.5	18.5
50°-60°	1014.3	21.4
60°-70°	932.4	19.6
70°-80°	587.9	12.4
80°-90°	84.6	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°	4746.0	100.0
0°-180°	4746.0	100.0

Coefficient of Utilization

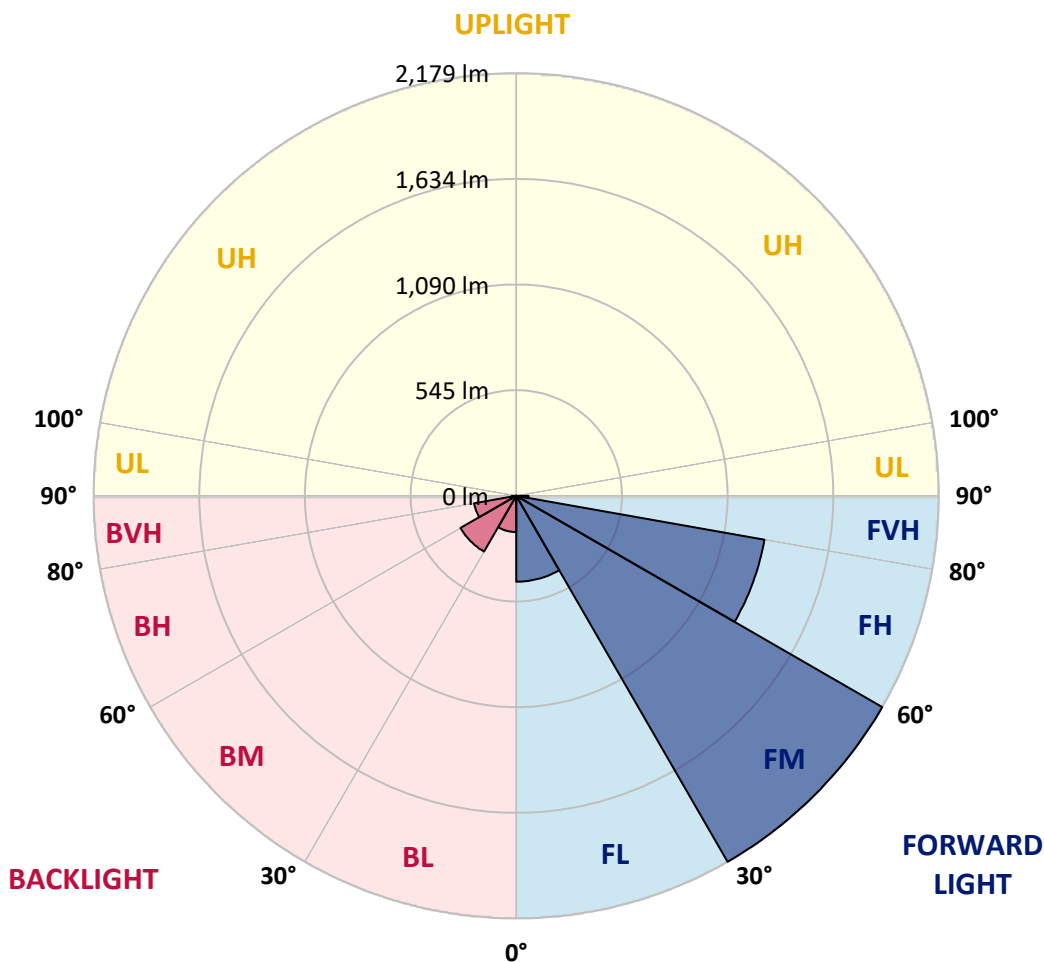


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	443.1	9.3			
FM (30°-60°)	2179.3	45.9			
FH (60°-80°)	1299.7	27.4			G1/1800
FVH (80°-90°)	62.7	1.3			G1/100
BL (0°-30°)	186.8	3.9	B1/500		
BM (30°-60°)	331.9	7.0	B1/1000		
BH (60°-80°)	220.6	4.6	B1/500		G1/500
BVH (80°-90°)	21.9	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°	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6
2.5°	749.4	748.3	744.8	739.1	734.6	720.9	702.6	686.6	662.6	660.3	636.3
5°	816.8	812.2	812.2	806.5	800.8	786.0	763.1	734.6	700.3	698.0	652.3
7.5°	848.8	849.9	847.7	843.1	844.2	831.7	811.1	782.5	735.7	733.4	674.0
10°	894.5	893.4	888.8	885.4	884.2	872.8	854.5	828.2	779.1	774.5	699.1
12.5°	939.0	935.6	936.8	935.6	933.3	921.9	904.8	878.5	818.0	815.7	730.0
15°	964.2	963.0	971.0	973.3	982.5	972.2	957.3	927.6	872.8	863.6	766.5
17.5°	980.2	979.0	987.0	1005.3	1022.4	1022.4	1017.9	985.9	925.3	918.5	807.7
20°	1007.6	1012.2	1025.9	1040.7	1065.9	1070.4	1069.3	1055.6	985.9	979.0	853.4
22.5°	1062.4	1060.1	1071.6	1094.4	1117.3	1124.1	1125.3	1125.3	1055.6	1043.0	900.2
25°	1180.1	1174.4	1165.2	1163.0	1190.4	1189.2	1185.8	1193.8	1128.7	1119.5	953.9
27.5°	1404.0	1391.4	1356.0	1285.2	1269.2	1274.9	1257.8	1258.9	1212.1	1200.7	999.6
30°	1616.5	1610.8	1577.6	1492.0	1401.7	1369.7	1340.0	1327.5	1304.6	1285.2	1048.7
32.5°	1808.4	1809.6	1769.6	1675.9	1583.4	1482.8	1431.4	1405.1	1414.3	1397.1	1116.1
35°	1938.6	1928.4	1903.2	1840.4	1739.9	1643.9	1545.7	1487.4	1536.5	1517.1	1183.5
37.5°	2015.2	2007.2	1986.6	1942.1	1891.8	1799.3	1674.7	1585.6	1681.6	1653.0	1269.2
40°	2054.0	2042.6	2022.0	2003.8	1979.8	1929.5	1819.8	1697.6	1814.1	1789.0	1353.7
42.5°	2058.6	2050.6	2039.2	2030.0	2038.0	2031.2	1961.5	1827.8	1953.5	1926.1	1450.8
45°	2055.2	2060.9	2047.2	2031.2	2047.2	2105.4	2105.4	1958.1	2091.7	2071.2	1543.4
47.5°	2057.5	2051.7	2047.2	2042.6	2044.9	2124.9	2204.8	2080.3	2224.2	2200.2	1651.9
50°	1962.6	1970.6	2009.5	2026.6	2036.9	2129.4	2284.8	2212.8	2388.7	2359.0	1773.0
52.5°	1661.0	1665.6	1842.7	1970.6	2011.8	2111.1	2340.8	2360.2	2551.0	2528.1	1903.2
55°	1279.5	1303.5	1471.4	1784.4	1954.6	2080.3	2357.9	2456.1	2716.6	2698.3	2034.6
57.5°	1053.3	1056.7	1153.8	1433.7	1774.1	2051.7	2375.0	2544.1	2865.1	2844.6	2171.7
60°	873.9	865.9	925.3	1105.8	1473.7	1937.5	2378.5	2613.8	3037.6	3030.8	2313.3
62.5°	642.0	651.2	708.3	861.4	1152.7	1705.6	2361.3	2673.2	3243.3	3234.1	2471.0
65°	394.1	405.5	475.2	615.8	872.8	1353.7	2249.4	2704.0	3459.2	3479.7	2641.2
67.5°	209.1	217.1	258.2	372.4	598.6	1031.6	1979.8	2665.2	3642.0	3651.1	2804.6
70°	153.1	154.2	167.9	210.2	361.0	717.4	1576.5	2496.1	3753.9	3772.2	2858.3
72.5°	133.7	134.8	140.5	150.8	196.5	437.5	1129.8	2201.4	3707.1	3691.1	2768.0
75°	121.1	121.1	125.7	129.1	143.9	242.2	692.3	1801.6	3349.5	3314.1	2360.2
77.5°	104.0	104.0	108.5	113.1	124.5	156.5	362.1	1335.5	2561.2	2500.7	1614.2
80°	83.4	83.4	89.1	94.8	109.7	117.7	177.1	893.4	1464.5	1375.4	734.6
82.5°	57.1	61.7	72.0	78.8	91.4	83.4	104.0	386.1	461.5	399.8	165.6
85°	34.3	36.6	51.4	59.4	68.5	44.6	64.0	148.5	138.2	121.1	37.7
87.5°	3.4	5.7	20.6	24.0	24.0	12.6	27.4	35.4	40.0	41.1	9.1
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°	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6
2.5°	622.6	608.9	582.6	558.6	534.6	518.6	502.7	496.9	488.9	483.2	487.8
5°	628.3	599.8	549.5	507.2	478.7	457.0	446.7	441.0	436.4	435.3	434.1
7.5°	635.2	592.9	525.5	478.7	451.2	441.0	438.7	438.7	438.7	439.8	441.0
10°	650.0	595.2	512.9	462.7	447.8	445.5	446.7	451.2	451.2	452.4	452.4
12.5°	667.2	600.9	503.8	460.4	451.2	452.4	453.5	455.8	455.8	459.2	458.1
15°	692.3	612.3	502.7	462.7	454.7	452.4	452.4	451.2	451.2	451.2	453.5
17.5°	724.3	628.3	503.8	462.7	451.2	446.7	443.2	439.8	435.3	437.5	435.3
20°	756.3	647.7	503.8	457.0	442.1	430.7	420.4	414.7	409.0	407.8	409.0
22.5°	796.2	670.6	498.1	444.4	422.7	406.7	391.8	383.8	374.7	371.3	369.0
25°	830.5	688.9	486.7	426.1	401.0	378.1	358.7	345.0	333.6	331.3	331.3
27.5°	865.9	704.9	469.5	403.3	370.1	345.0	323.3	306.2	294.7	293.6	292.5
30°	899.1	718.6	446.7	378.1	342.7	313.0	287.9	273.0	262.8	257.0	253.6
32.5°	942.5	736.8	425.0	353.0	310.7	281.0	258.2	245.6	231.9	222.8	219.3
35°	997.3	758.5	401.0	325.6	282.2	252.5	238.8	220.5	203.3	193.1	189.6
37.5°	1059.0	789.4	375.8	297.0	253.6	231.9	223.9	195.3	177.1	173.6	172.5
40°	1135.5	819.1	347.3	267.3	226.2	220.5	206.8	177.1	167.9	166.8	165.6
42.5°	1212.1	851.1	319.9	237.6	204.5	206.8	187.4	172.5	164.5	162.2	161.1
45°	1301.2	883.1	292.5	211.3	187.4	187.4	177.1	167.9	161.1	158.8	158.8
47.5°	1394.9	915.1	262.8	188.5	174.8	167.9	169.1	162.2	157.7	155.4	154.2
50°	1512.5	945.9	235.3	172.5	166.8	157.7	161.1	156.5	154.2	151.9	150.8
52.5°	1623.3	959.6	210.2	163.4	162.2	153.1	154.2	151.9	150.8	147.4	146.2
55°	1731.9	956.2	190.8	158.8	156.5	151.9	149.7	148.5	147.4	143.9	142.8
57.5°	1853.0	951.6	178.2	157.7	153.1	148.5	148.5	145.1	140.5	140.5	140.5
60°	1978.6	936.8	172.5	157.7	151.9	148.5	146.2	142.8	138.2	139.4	138.2
62.5°	2120.3	908.2	169.1	161.1	153.1	147.4	145.1	140.5	134.8	135.9	134.8
65°	2244.8	849.9	166.8	164.5	155.4	148.5	142.8	137.1	130.2	131.4	130.2
67.5°	2329.3	751.7	159.9	166.8	158.8	147.4	140.5	132.5	123.4	127.9	126.8
70°	2305.3	611.2	147.4	162.2	162.2	148.5	137.1	126.8	116.5	125.7	122.2
72.5°	2119.1	459.2	123.4	146.2	159.9	148.5	130.2	117.7	108.5	114.2	107.4
75°	1739.9	311.9	98.2	116.5	149.7	149.7	124.5	108.5	97.1	93.7	91.4
77.5°	1085.3	194.2	76.5	85.7	125.7	148.5	118.8	97.1	81.1	78.8	76.5
80°	429.5	104.0	60.5	61.7	92.5	135.9	110.8	82.3	65.1	62.8	58.3
82.5°	98.2	52.6	42.3	41.1	57.1	110.8	100.5	65.1	50.3	50.3	42.3
85°	29.7	27.4	27.4	26.3	28.6	57.1	77.7	44.6	34.3	24.0	20.6
87.5°	8.0	11.4	10.3	9.1	9.1	8.0	25.1	11.4	6.9	3.4	2.3
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)