

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: P595029

Luminaire Tested: **IST-PA1B-727-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595029
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-727-U-T2R
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 2700K, 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: 4358 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

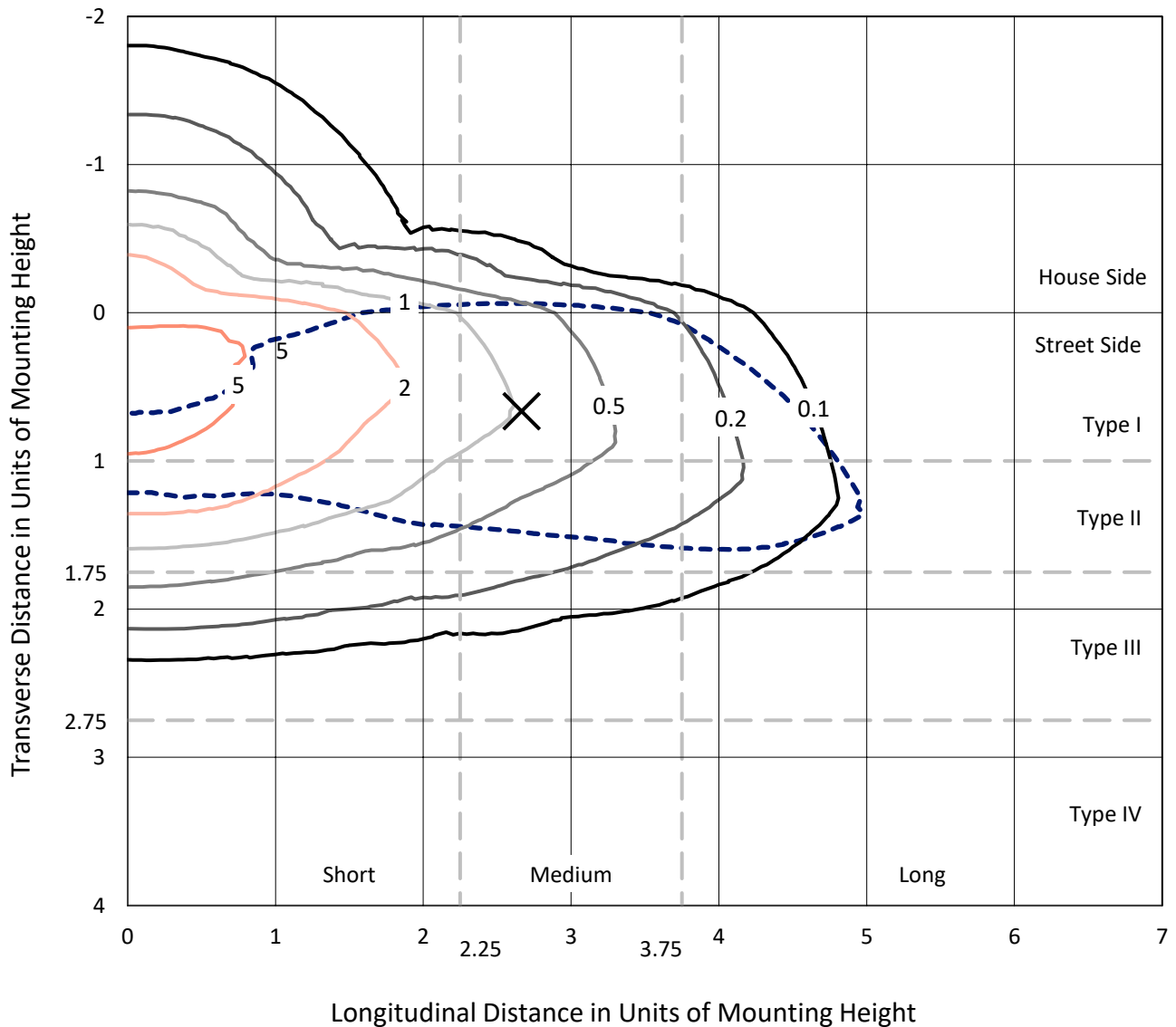
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P595029
 CATALOG NUMBER: IST-PA1B-727-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

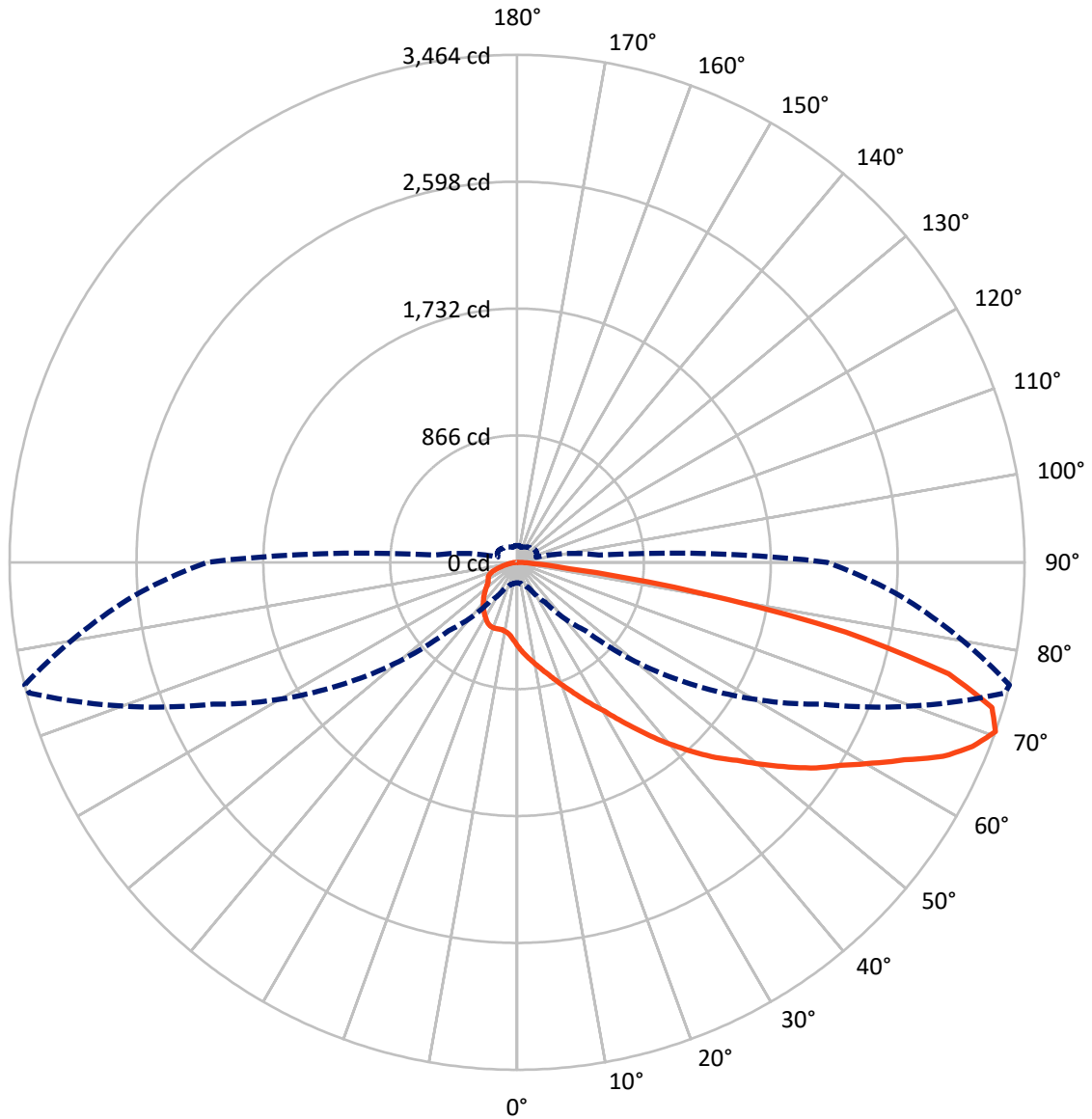
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P595029
CATALOG NUMBER: IST-PA1B-727-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P595029
 CATALOG NUMBER: IST-PA1B-727-U-T2R

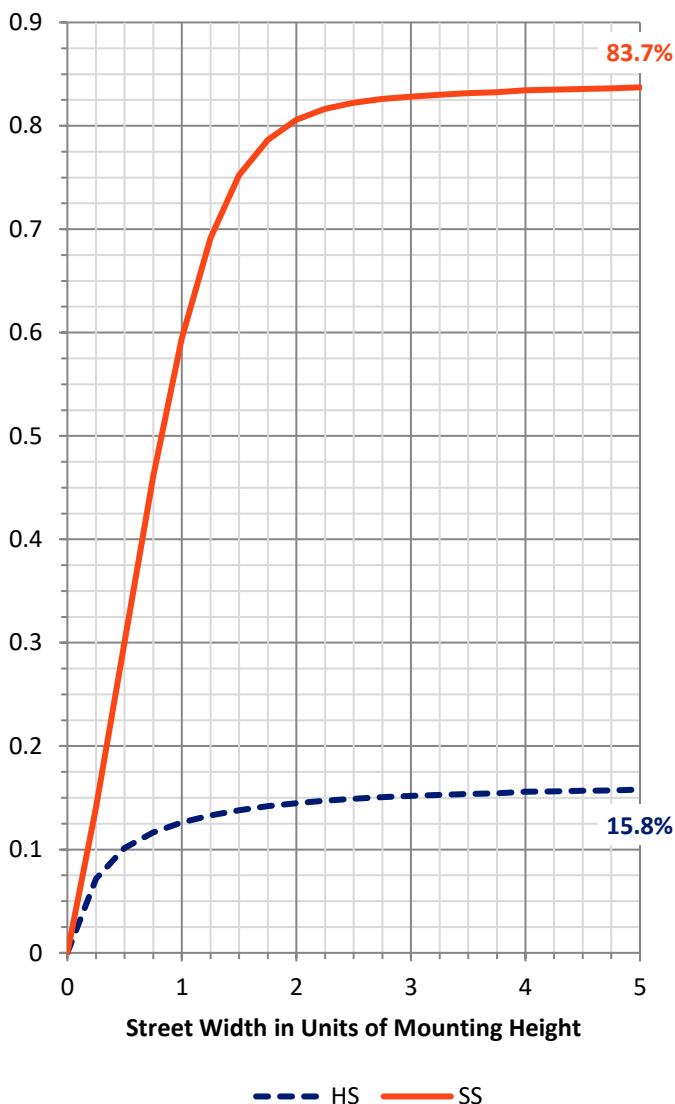
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	699.0	0.0	699.0
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	3659.0	0.0	3659.0
	% Fixture	84.0	0.0	84.0
Total	Lumens	4358.0	0.0	4358.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	1.3
10°-20°	183.9	4.2
20°-30°	338.9	7.8
30°-40°	567.7	13.0
40°-50°	806.7	18.5
50°-60°	931.4	21.4
60°-70°	856.2	19.6
70°-80°	539.9	12.4
80°-90°	77.6	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°	4358.0	100.0
0°-180°	4358.0	100.0

Coefficient of Utilization

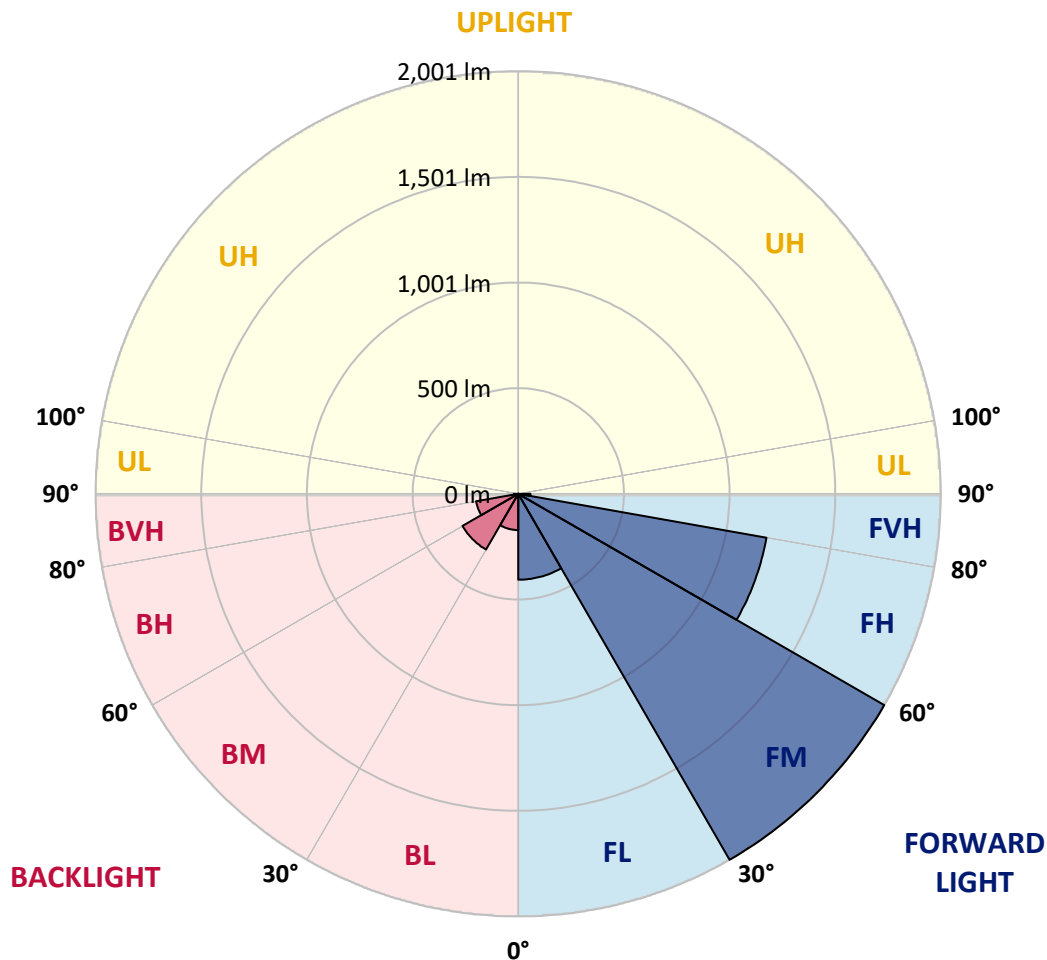


REPORT NUMBER: P595029
 CATALOG NUMBER: IST-PA1B-727-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	406.9	9.3			
FM (30°-60°)	2001.1	45.9			
FH (60°-80°)	1193.5	27.4			G1/1800
FVH (80°-90°)	57.6	1.3			G1/100
BL (0°-30°)	171.6	3.9	B1/500		
BM (30°-60°)	304.7	7.0	B1/1000		
BH (60°-80°)	202.6	4.6	B1/500		G1/500
BVH (80°-90°)	20.1	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





REPORT NUMBER: P595029

CATALOG NUMBER: IST-PA1B-727-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	571.7	571.7	571.7	571.7	571.7	571.7	571.7	571.7	571.7	571.7	571.7
2.5°	688.1	687.1	683.9	678.7	674.5	661.9	645.1	630.4	608.4	606.3	584.3
5°	750.0	745.8	745.8	740.6	735.3	721.7	700.7	674.5	643.0	640.9	599.0
7.5°	779.4	780.5	778.4	774.2	775.2	763.7	744.8	718.6	675.6	673.5	618.9
10°	821.4	820.3	816.1	813.0	811.9	801.4	784.7	760.5	715.4	711.2	642.0
12.5°	862.3	859.1	860.2	859.1	857.0	846.5	830.8	806.7	751.1	749.0	670.3
15°	885.4	884.3	891.6	893.7	902.1	892.7	879.1	851.8	801.4	793.0	703.9
17.5°	900.0	899.0	906.3	923.1	938.9	938.9	934.7	905.3	849.7	843.4	741.6
20°	925.2	929.4	942.0	955.6	978.7	982.9	981.9	969.3	905.3	899.0	783.6
22.5°	975.6	973.5	984.0	1004.9	1025.9	1032.2	1033.3	1033.3	969.3	957.7	826.6
25°	1083.6	1078.4	1070.0	1067.9	1093.1	1092.0	1088.9	1096.2	1036.4	1028.0	875.9
27.5°	1289.2	1277.7	1245.2	1180.1	1165.4	1170.7	1154.9	1156.0	1113.0	1102.5	917.9
30°	1484.3	1479.1	1448.7	1370.0	1287.1	1257.8	1230.5	1218.9	1198.0	1180.1	963.0
32.5°	1660.6	1661.6	1624.9	1538.9	1453.9	1361.6	1314.4	1290.3	1298.7	1282.9	1024.9
35°	1780.2	1770.7	1747.6	1689.9	1597.6	1509.5	1419.3	1365.8	1410.9	1393.1	1086.8
37.5°	1850.4	1843.1	1824.2	1783.3	1737.1	1652.2	1537.8	1456.0	1544.1	1517.9	1165.4
40°	1886.1	1875.6	1856.7	1839.9	1817.9	1771.8	1671.1	1558.8	1665.8	1642.7	1243.1
42.5°	1890.3	1883.0	1872.5	1864.1	1871.4	1865.1	1801.1	1678.4	1793.8	1768.6	1332.2
45°	1887.1	1892.4	1879.8	1865.1	1879.8	1933.3	1933.3	1798.0	1920.7	1901.8	1417.2
47.5°	1889.2	1884.0	1879.8	1875.6	1877.7	1951.1	2024.6	1910.2	2042.4	2020.4	1516.9
50°	1802.2	1809.5	1845.2	1860.9	1870.4	1955.3	2098.0	2031.9	2193.5	2166.2	1628.0
52.5°	1525.2	1529.4	1692.0	1809.5	1847.3	1938.6	2149.4	2167.2	2342.4	2321.4	1747.6
55°	1174.9	1196.9	1351.1	1638.5	1794.8	1910.2	2165.1	2255.3	2494.5	2477.7	1868.3
57.5°	967.2	970.3	1059.5	1316.5	1629.1	1884.0	2180.9	2336.1	2630.9	2612.0	1994.1
60°	802.5	795.1	849.7	1015.4	1353.2	1779.1	2184.0	2400.1	2789.3	2783.0	2124.2
62.5°	589.5	597.9	650.4	790.9	1058.4	1566.2	2168.3	2454.7	2978.1	2969.7	2269.0
65°	361.9	372.4	436.4	565.4	801.4	1243.1	2065.5	2483.0	3176.4	3195.3	2425.3
67.5°	192.0	199.3	237.1	342.0	549.7	947.2	1817.9	2447.3	3344.2	3352.6	2575.3
70°	140.6	141.6	154.2	193.0	331.5	658.8	1447.6	2292.1	3447.0	3463.8	2624.6
72.5°	122.7	123.8	129.0	138.5	180.4	401.8	1037.5	2021.4	3404.0	3389.3	2541.7
75°	111.2	111.2	115.4	118.5	132.2	222.4	635.7	1654.3	3075.7	3043.1	2167.2
77.5°	95.5	95.5	99.7	103.9	114.3	143.7	332.5	1226.3	2351.9	2296.3	1482.2
80°	76.6	76.6	81.8	87.1	100.7	108.0	162.6	820.3	1344.8	1263.0	674.5
82.5°	52.4	56.6	66.1	72.4	83.9	76.6	95.5	354.6	423.8	367.1	152.1
85°	31.5	33.6	47.2	54.5	62.9	40.9	58.7	136.4	126.9	111.2	34.6
87.5°	3.1	5.2	18.9	22.0	22.0	11.5	25.2	32.5	36.7	37.8	8.4
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: P595029
 CATALOG NUMBER: IST-PA1B-727-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	571.7	571.7	571.7	571.7	571.7	571.7	571.7	571.7	571.7	571.7	571.7
2.5°	571.7	559.1	535.0	513.0	490.9	476.2	461.6	456.3	449.0	443.7	447.9
5°	576.9	550.7	504.6	465.8	439.5	419.6	410.2	404.9	400.7	399.7	398.6
7.5°	583.2	544.4	482.5	439.5	414.4	404.9	402.8	402.8	402.8	403.9	404.9
10°	596.9	546.5	471.0	424.8	411.2	409.1	410.2	414.4	414.4	415.4	415.4
12.5°	612.6	551.8	462.6	422.7	414.4	415.4	416.5	418.6	418.6	421.7	420.6
15°	635.7	562.3	461.6	424.8	417.5	415.4	415.4	414.4	414.4	414.4	416.5
17.5°	665.1	576.9	462.6	424.8	414.4	410.2	407.0	403.9	399.7	401.8	399.7
20°	694.4	594.8	462.6	419.6	406.0	395.5	386.0	380.8	375.5	374.5	375.5
22.5°	731.2	615.8	457.4	408.1	388.1	373.4	359.8	352.5	344.1	340.9	338.8
25°	762.6	632.5	446.9	391.3	368.2	347.2	329.4	316.8	306.3	304.2	304.2
27.5°	795.1	647.2	431.1	370.3	339.9	316.8	296.9	281.1	270.6	269.6	268.5
30°	825.6	659.8	410.2	347.2	314.7	287.4	264.3	250.7	241.3	236.0	232.9
32.5°	865.4	676.6	390.2	324.1	285.3	258.1	237.1	225.5	212.9	204.6	201.4
35°	915.8	696.5	368.2	299.0	259.1	231.8	219.2	202.5	186.7	177.3	174.1
37.5°	972.4	724.9	345.1	272.7	232.9	212.9	205.6	179.4	162.6	159.4	158.4
40°	1042.7	752.1	318.9	245.5	207.7	202.5	189.9	162.6	154.2	153.2	152.1
42.5°	1113.0	781.5	293.7	218.2	187.8	189.9	172.0	158.4	151.1	149.0	147.9
45°	1194.8	810.9	268.5	194.1	172.0	172.0	162.6	154.2	147.9	145.8	145.8
47.5°	1280.8	840.2	241.3	173.1	160.5	154.2	155.3	149.0	144.8	142.7	141.6
50°	1388.9	868.6	216.1	158.4	153.2	144.8	147.9	143.7	141.6	139.5	138.5
52.5°	1490.6	881.2	193.0	150.0	149.0	140.6	141.6	139.5	138.5	135.3	134.3
55°	1590.3	878.0	175.2	145.8	143.7	139.5	137.4	136.4	135.3	132.2	131.1
57.5°	1701.5	873.8	163.6	144.8	140.6	136.4	136.4	133.2	129.0	129.0	129.0
60°	1816.9	860.2	158.4	144.8	139.5	136.4	134.3	131.1	126.9	128.0	126.9
62.5°	1946.9	834.0	155.3	147.9	140.6	135.3	133.2	129.0	123.8	124.8	123.8
65°	2061.3	780.5	153.2	151.1	142.7	136.4	131.1	125.9	119.6	120.6	119.6
67.5°	2138.9	690.2	146.9	153.2	145.8	135.3	129.0	121.7	113.3	117.5	116.4
70°	2116.9	561.2	135.3	149.0	149.0	136.4	125.9	116.4	107.0	115.4	112.2
72.5°	1945.9	421.7	113.3	134.3	146.9	136.4	119.6	108.0	99.7	104.9	98.6
75°	1597.6	286.4	90.2	107.0	137.4	137.4	114.3	99.7	89.2	86.0	83.9
77.5°	996.5	178.3	70.3	78.7	115.4	136.4	109.1	89.2	74.5	72.4	70.3
80°	394.4	95.5	55.6	56.6	85.0	124.8	101.8	75.5	59.8	57.7	53.5
82.5°	90.2	48.3	38.8	37.8	52.4	101.8	92.3	59.8	46.2	46.2	38.8
85°	27.3	25.2	25.2	24.1	26.2	52.4	71.3	40.9	31.5	22.0	18.9
87.5°	7.3	10.5	9.4	8.4	8.4	7.3	23.1	10.5	6.3	3.1	2.1
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)