

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: P594948

Luminaire Tested: **IST-PA1A-730-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594948
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-PA1A-730-U-T2R
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3000K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3783 lumens
Efficiency: N/A
Efficacy: 131.4 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): 28.8
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

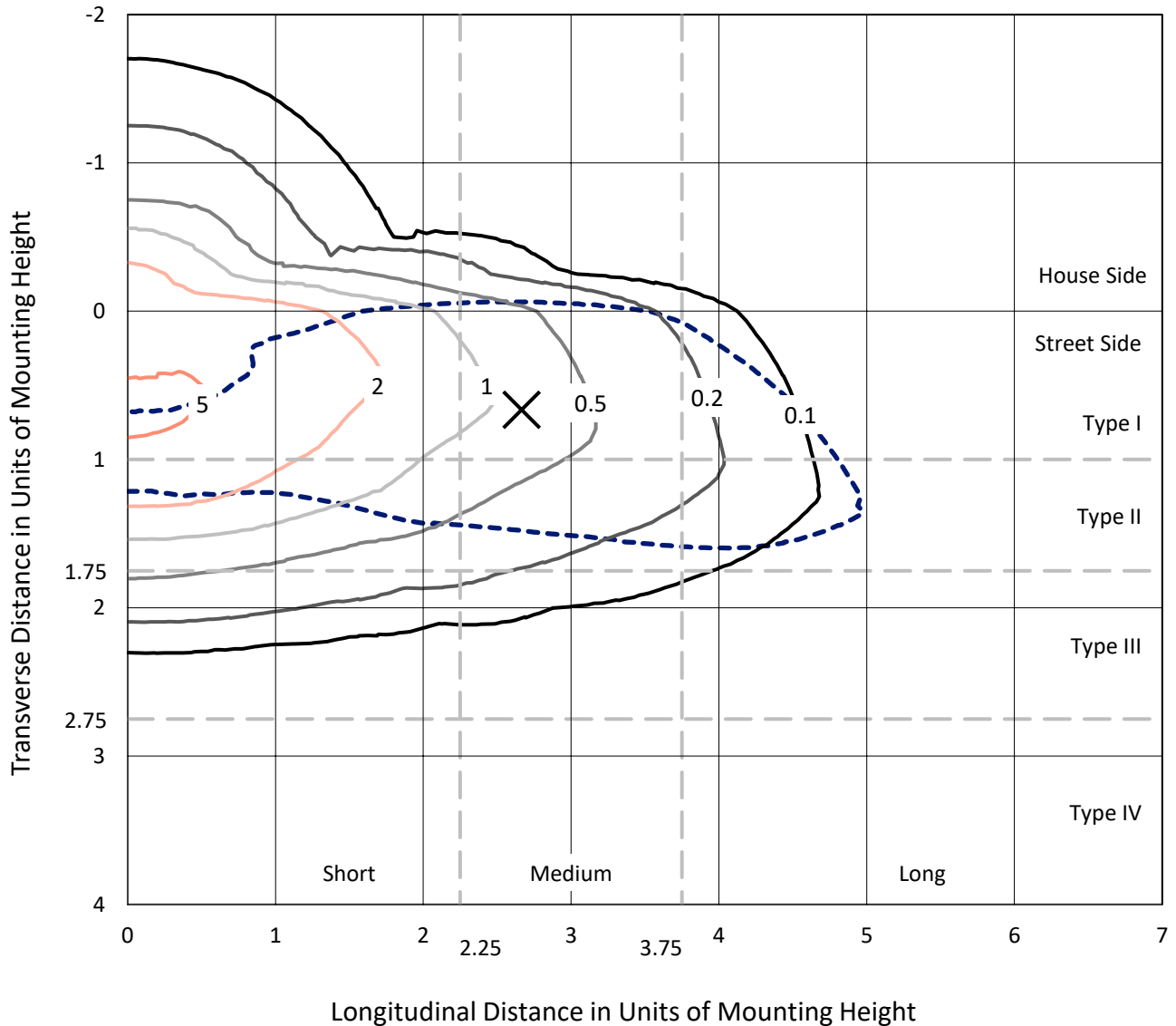




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Iso-Footcandle Lines of Horizontal Illumination

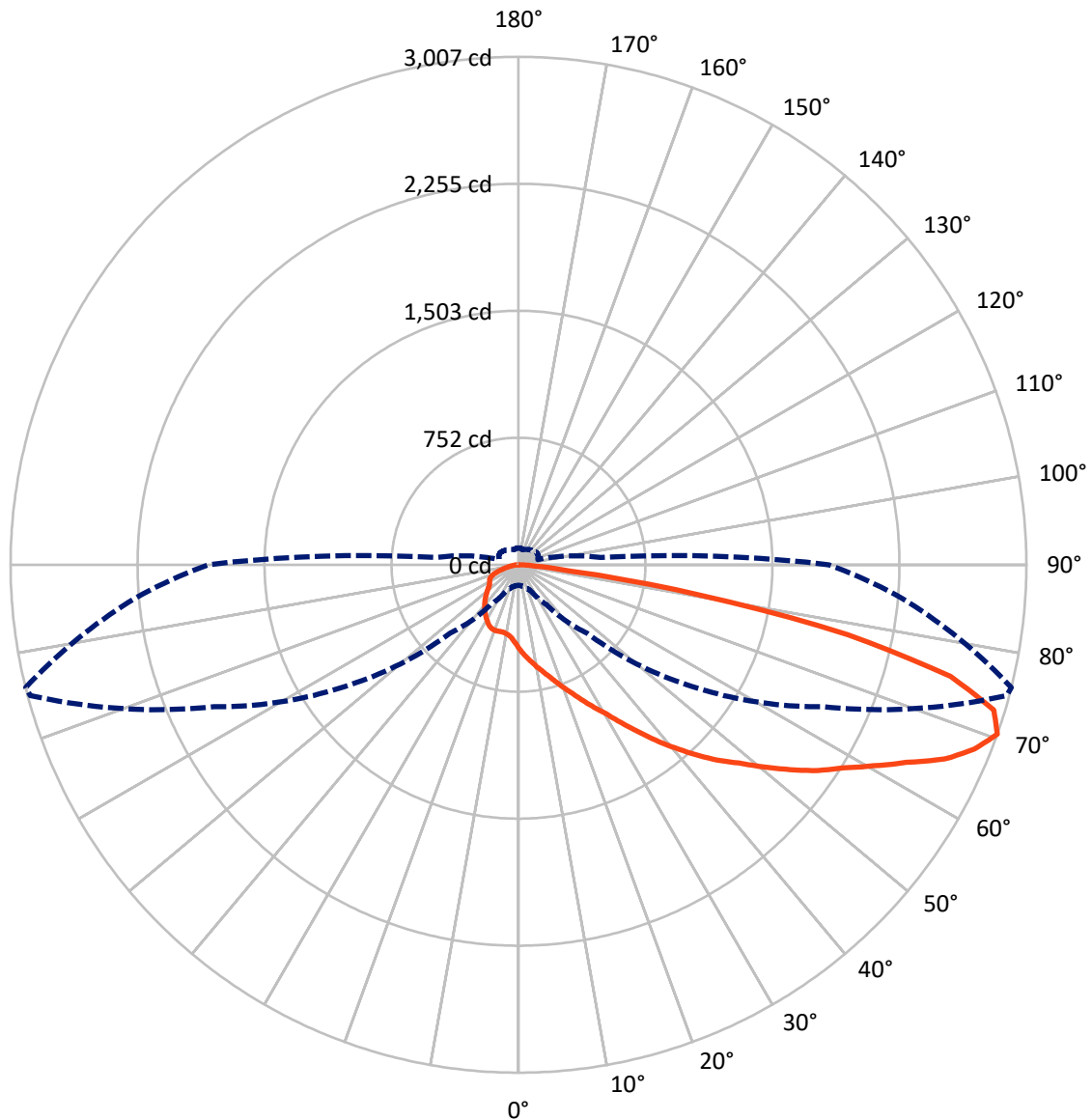
✕ Max cd
 - - - 1/2 Max cd



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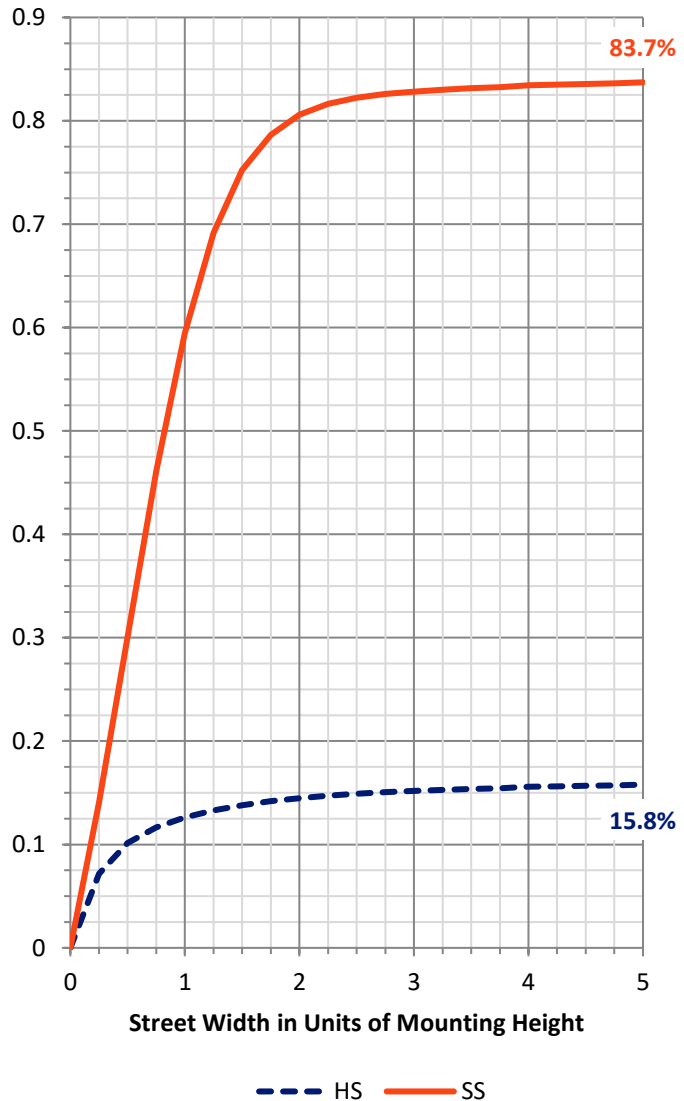
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	606.8	0.0	606.8
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	3176.2	0.0	3176.2
	% Fixture	84.0	0.0	84.0
Total	Lumens	3783.0	0.0	3783.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	1.3
10°-20°	159.6	4.2
20°-30°	294.1	7.8
30°-40°	492.8	13.0
40°-50°	700.3	18.5
50°-60°	808.5	21.4
60°-70°	743.2	19.6
70°-80°	468.7	12.4
80°-90°	67.4	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°	3783.0	100.0
0°-180°	3783.0	100.0

Coefficient of Utilization



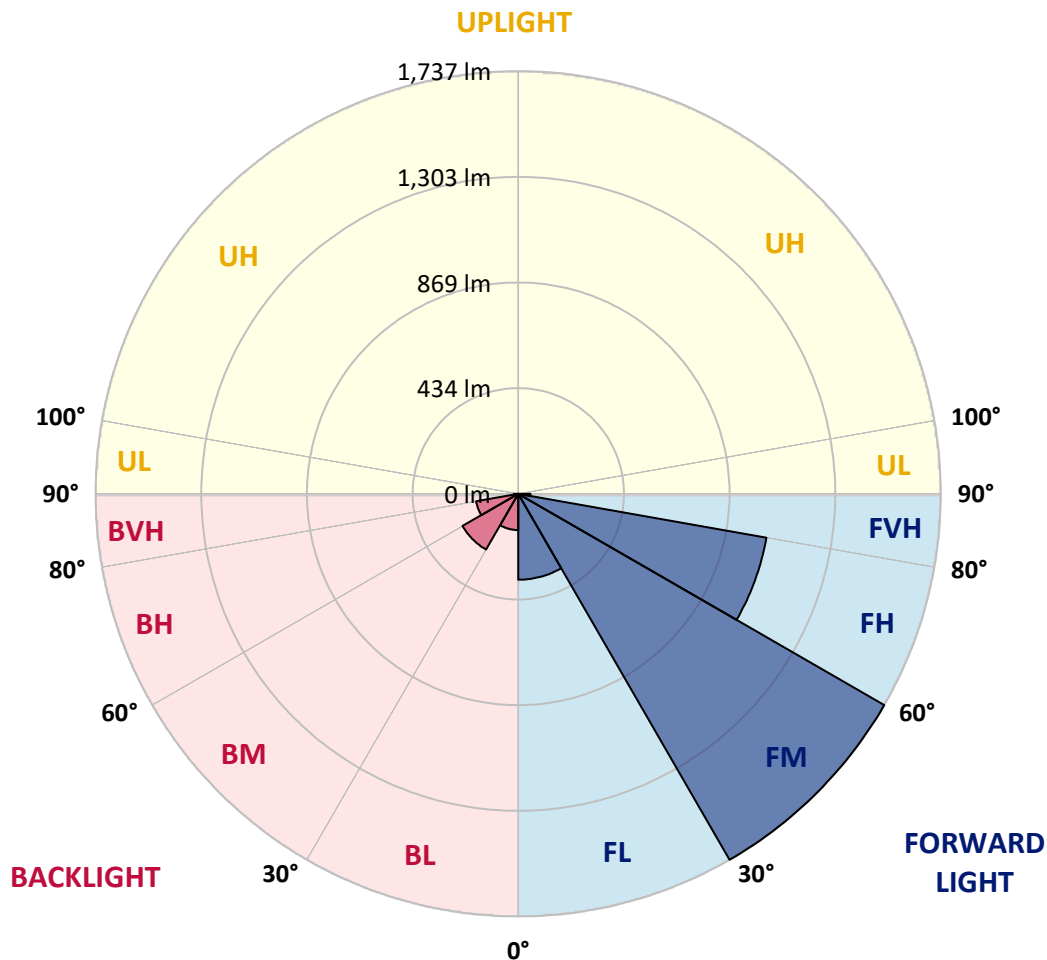
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	353.2	9.3			
FM (30°-60°)	1737.1	45.9			
FH (60°-80°)	1036.0	27.4			G1/1800
FVH (80°-90°)	50.0	1.3			G1/100
BL (0°-30°)	148.9	3.9	B1/500		
BM (30°-60°)	264.5	7.0	B1/1000		
BH (60°-80°)	175.9	4.6	B1/500		G1/500
BVH (80°-90°)	17.4	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°	496.3	496.3	496.3	496.3	496.3	496.3	496.3	496.3	496.3	496.3	496.3
2.5°	597.3	596.4	593.7	589.2	585.5	574.6	560.0	547.3	528.1	526.3	507.2
5°	651.1	647.4	647.4	642.9	638.3	626.5	608.3	585.5	558.2	556.4	519.9
7.5°	676.6	677.5	675.7	672.0	672.9	662.9	646.5	623.8	586.4	584.6	537.2
10°	713.0	712.1	708.4	705.7	704.8	695.7	681.1	660.2	621.0	617.4	557.3
12.5°	748.5	745.8	746.7	745.8	744.0	734.8	721.2	700.2	652.0	650.2	581.9
15°	768.5	767.6	774.0	775.8	783.1	774.9	763.1	739.4	695.7	688.4	611.0
17.5°	781.3	780.4	786.8	801.3	815.0	815.0	811.3	785.8	737.6	732.1	643.8
20°	803.1	806.8	817.7	829.6	849.6	853.2	852.3	841.4	785.8	780.4	680.2
22.5°	846.9	845.0	854.1	872.3	890.6	896.0	896.9	896.9	841.4	831.4	717.5
25°	940.6	936.1	928.8	927.0	948.8	947.9	945.2	951.6	899.7	892.4	760.3
27.5°	1119.1	1109.1	1080.9	1024.4	1011.7	1016.2	1002.6	1003.5	966.1	957.0	796.8
30°	1288.5	1283.9	1257.5	1189.2	1117.3	1091.8	1068.1	1058.1	1039.9	1024.4	835.9
32.5°	1441.5	1442.4	1410.5	1335.8	1262.1	1181.9	1141.0	1120.0	1127.3	1113.7	889.6
35°	1545.3	1537.1	1517.0	1467.0	1386.8	1310.3	1232.0	1185.6	1224.7	1209.3	943.4
37.5°	1606.3	1599.9	1583.5	1548.0	1507.9	1434.2	1334.9	1263.9	1340.4	1317.6	1011.7
40°	1637.2	1628.1	1611.7	1597.2	1578.1	1538.0	1450.6	1353.1	1446.0	1426.0	1079.1
42.5°	1640.9	1634.5	1625.4	1618.1	1624.5	1619.0	1563.5	1456.9	1557.1	1535.3	1156.5
45°	1638.2	1642.7	1631.8	1619.0	1631.8	1678.2	1678.2	1560.8	1667.3	1650.9	1230.2
47.5°	1640.0	1635.4	1631.8	1628.1	1630.0	1693.7	1757.4	1658.2	1772.9	1753.8	1316.7
50°	1564.4	1570.8	1601.7	1615.4	1623.6	1697.3	1821.2	1763.8	1904.0	1880.4	1413.2
52.5°	1324.0	1327.6	1468.8	1570.8	1603.6	1682.8	1865.8	1881.3	2033.4	2015.1	1517.0
55°	1019.9	1039.0	1172.8	1422.3	1558.0	1658.2	1879.5	1957.8	2165.4	2150.8	1621.8
57.5°	839.6	842.3	919.7	1142.8	1414.2	1635.4	1893.1	2027.9	2283.8	2267.4	1731.0
60°	696.6	690.2	737.6	881.5	1174.7	1544.4	1895.9	2083.4	2421.3	2415.8	1844.0
62.5°	511.8	519.0	564.6	686.6	918.8	1359.5	1882.2	2130.8	2585.2	2577.9	1969.6
65°	314.2	323.3	378.8	490.8	695.7	1079.1	1793.0	2155.4	2757.3	2773.7	2105.3
67.5°	166.6	173.0	205.8	296.9	477.2	822.3	1578.1	2124.4	2903.0	2910.3	2235.5
70°	122.0	122.9	133.9	167.5	287.7	571.9	1256.6	1989.6	2992.2	3006.8	2278.3
72.5°	106.5	107.4	112.0	120.2	156.6	348.8	900.6	1754.7	2954.9	2942.1	2206.4
75°	96.5	96.5	100.2	102.9	114.7	193.0	551.8	1436.0	2669.9	2641.6	1881.3
77.5°	82.9	82.9	86.5	90.1	99.3	124.8	288.7	1064.5	2041.5	1993.3	1286.7
80°	66.5	66.5	71.0	75.6	87.4	93.8	141.1	712.1	1167.4	1096.4	585.5
82.5°	45.5	49.2	57.4	62.8	72.8	66.5	82.9	307.8	367.9	318.7	132.0
85°	27.3	29.1	41.0	47.4	54.6	35.5	51.0	118.4	110.2	96.5	30.0
87.5°	2.7	4.6	16.4	19.1	19.1	10.0	21.9	28.2	31.9	32.8	7.3
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°	496.3	496.3	496.3	496.3	496.3	496.3	496.3	496.3	496.3	496.3	496.3
2.5°	496.3	485.3	464.4	445.3	426.2	413.4	400.7	396.1	389.7	385.2	388.8
5°	500.8	478.1	438.0	404.3	381.5	364.2	356.0	351.5	347.8	346.9	346.0
7.5°	506.3	472.6	418.9	381.5	359.7	351.5	349.7	349.7	349.7	350.6	351.5
10°	518.1	474.4	408.9	368.8	357.0	355.1	356.0	359.7	359.7	360.6	360.6
12.5°	531.8	479.0	401.6	367.0	359.7	360.6	361.5	363.3	363.3	366.1	365.1
15°	551.8	488.1	400.7	368.8	362.4	360.6	360.6	359.7	359.7	359.7	361.5
17.5°	577.3	500.8	401.6	368.8	359.7	356.0	353.3	350.6	346.9	348.8	346.9
20°	602.8	516.3	401.6	364.2	352.4	343.3	335.1	330.5	326.0	325.1	326.0
22.5°	634.7	534.5	397.0	354.2	336.9	324.2	312.3	306.0	298.7	295.9	294.1
25°	662.0	549.1	387.9	339.7	319.6	301.4	285.9	275.0	265.9	264.1	264.1
27.5°	690.2	561.8	374.3	321.4	295.0	275.0	257.7	244.0	234.9	234.0	233.1
30°	716.6	572.8	356.0	301.4	273.2	249.5	229.5	217.6	209.4	204.9	202.2
32.5°	751.2	587.3	338.7	281.4	247.7	224.0	205.8	195.8	184.9	177.6	174.8
35°	794.9	604.6	319.6	259.5	224.9	201.2	190.3	175.7	162.1	153.9	151.2
37.5°	844.1	629.2	299.6	236.8	202.2	184.9	178.5	155.7	141.1	138.4	137.5
40°	905.1	652.9	276.8	213.1	180.3	175.7	164.8	141.1	133.9	132.9	132.0
42.5°	966.1	678.4	255.0	189.4	163.0	164.8	149.3	137.5	131.1	129.3	128.4
45°	1037.2	703.9	233.1	168.5	149.3	149.3	141.1	133.9	128.4	126.6	126.6
47.5°	1111.8	729.4	209.4	150.2	139.3	133.9	134.8	129.3	125.7	123.8	122.9
50°	1205.6	754.0	187.6	137.5	132.9	125.7	128.4	124.8	122.9	121.1	120.2
52.5°	1294.0	764.9	167.5	130.2	129.3	122.0	122.9	121.1	120.2	117.5	116.6
55°	1380.5	762.2	152.1	126.6	124.8	121.1	119.3	118.4	117.5	114.7	113.8
57.5°	1477.0	758.5	142.1	125.7	122.0	118.4	118.4	115.6	112.0	112.0	112.0
60°	1577.1	746.7	137.5	125.7	121.1	118.4	116.6	113.8	110.2	111.1	110.2
62.5°	1690.1	723.9	134.8	128.4	122.0	117.5	115.6	112.0	107.4	108.4	107.4
65°	1789.3	677.5	132.9	131.1	123.8	118.4	113.8	109.3	103.8	104.7	103.8
67.5°	1856.7	599.2	127.5	132.9	126.6	117.5	112.0	105.6	98.3	102.0	101.1
70°	1837.6	487.2	117.5	129.3	129.3	118.4	109.3	101.1	92.9	100.2	97.4
72.5°	1689.1	366.1	98.3	116.6	127.5	118.4	103.8	93.8	86.5	91.1	85.6
75°	1386.8	248.6	78.3	92.9	119.3	119.3	99.3	86.5	77.4	74.7	72.8
77.5°	865.1	154.8	61.0	68.3	100.2	118.4	94.7	77.4	64.7	62.8	61.0
80°	342.4	82.9	48.3	49.2	73.8	108.4	88.3	65.6	51.9	50.1	46.4
82.5°	78.3	41.9	33.7	32.8	45.5	88.3	80.1	51.9	40.1	40.1	33.7
85°	23.7	21.9	21.9	20.9	22.8	45.5	61.9	35.5	27.3	19.1	16.4
87.5°	6.4	9.1	8.2	7.3	7.3	6.4	20.0	9.1	5.5	2.7	1.8
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)