

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: P594965

Luminaire Tested: **IST-PA1A-740-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594965
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1A-740-U-T2R-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 4000K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3331 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - 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

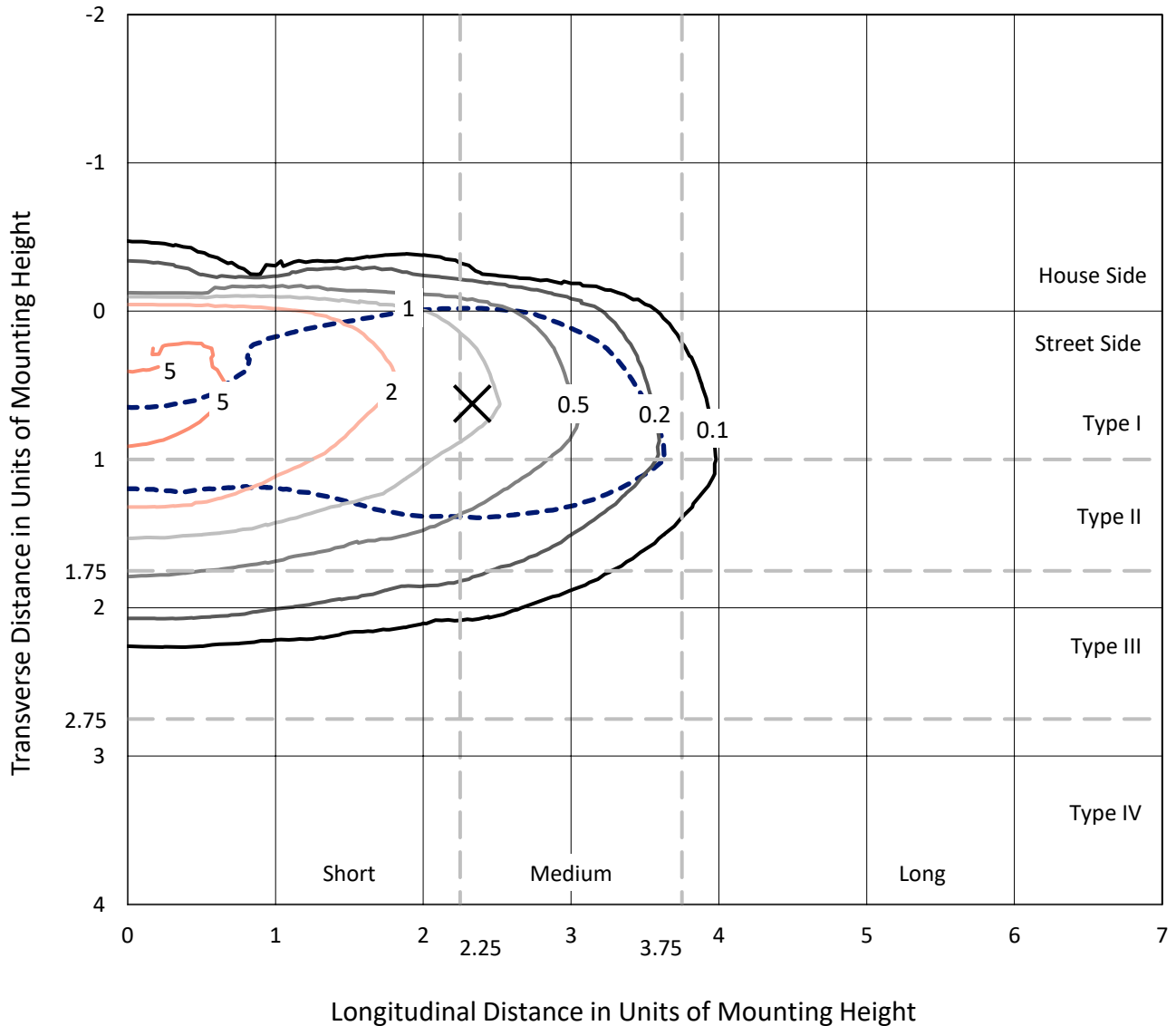




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Iso-Footcandle Lines of Horizontal Illumination

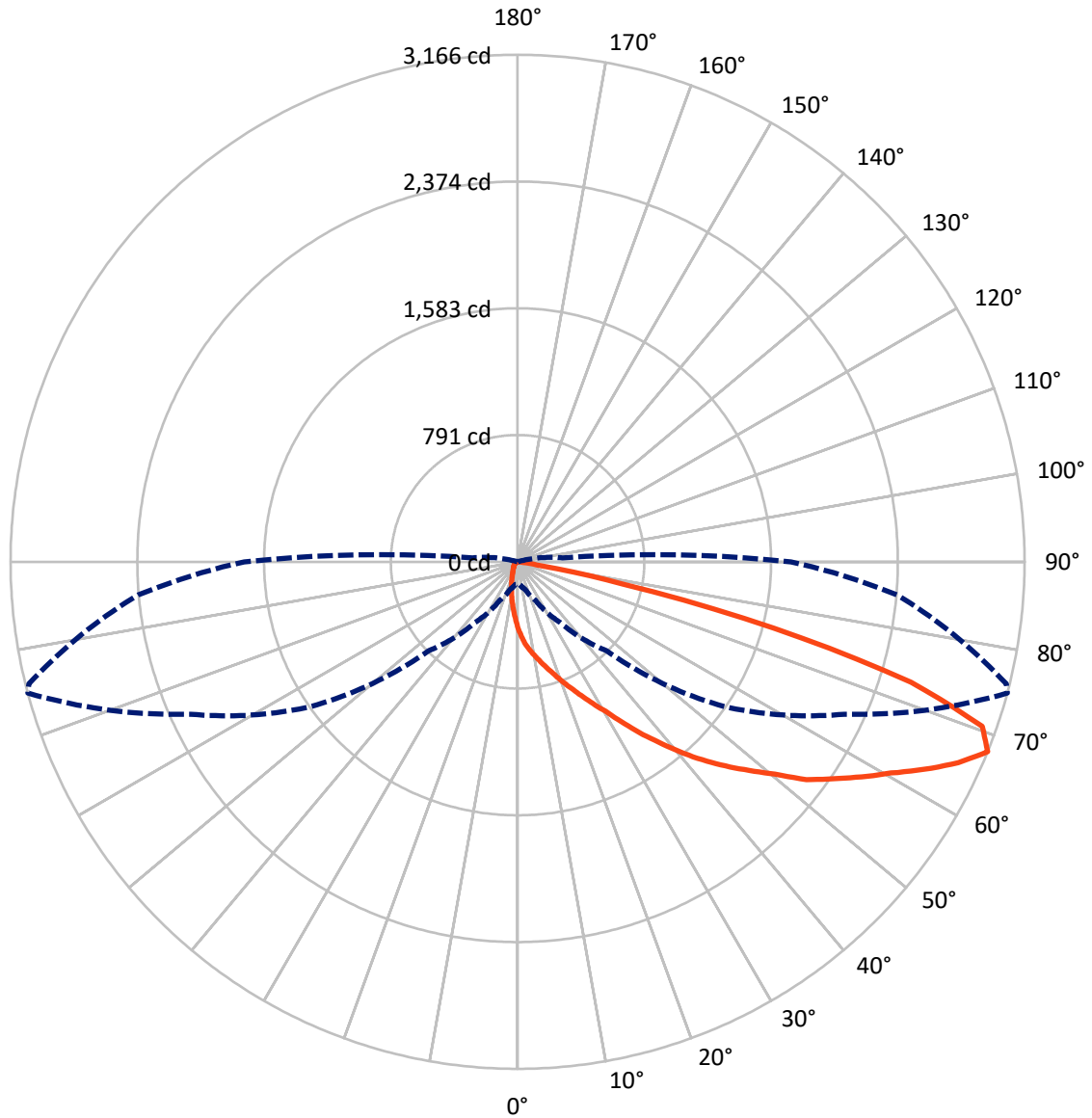
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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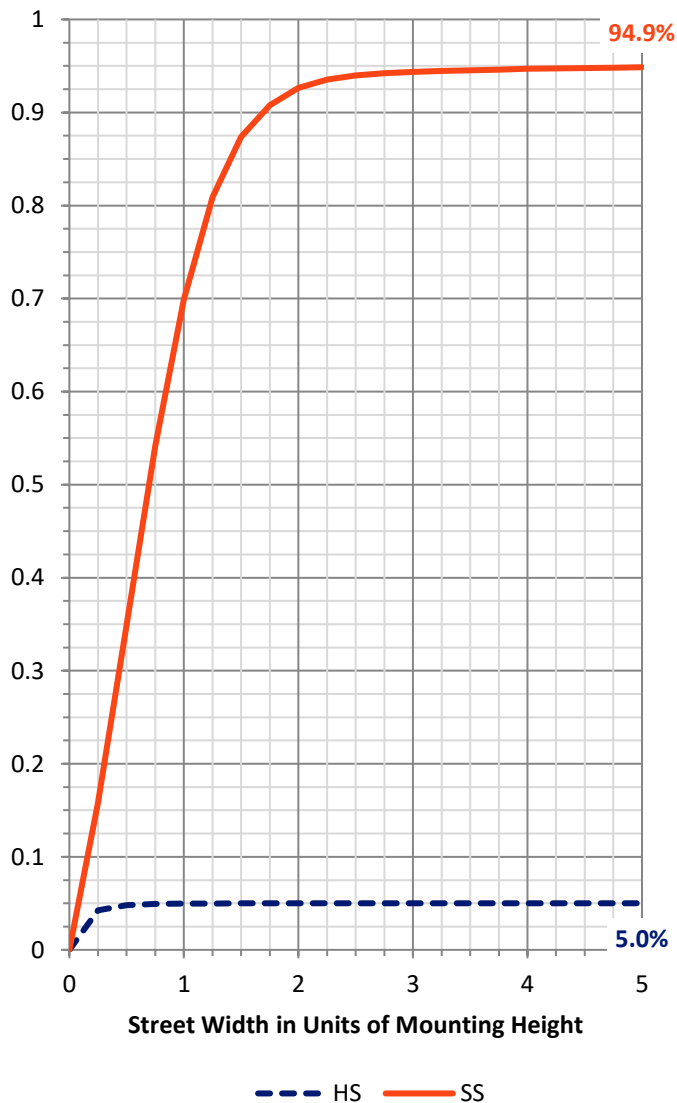
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	167.9	0.0	167.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	3163.1	0.0	3163.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	3331.0	0.0	3331.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.3	1.1
10°-20°	120.5	3.6
20°-30°	242.2	7.3
30°-40°	458.1	13.8
40°-50°	685.4	20.6
50°-60°	791.3	23.8
60°-70°	701.4	21.1
70°-80°	283.5	8.5
80°-90°	11.3	0.3
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°	3331.0	100.0
0°-180°	3331.0	100.0

Coefficient of Utilization



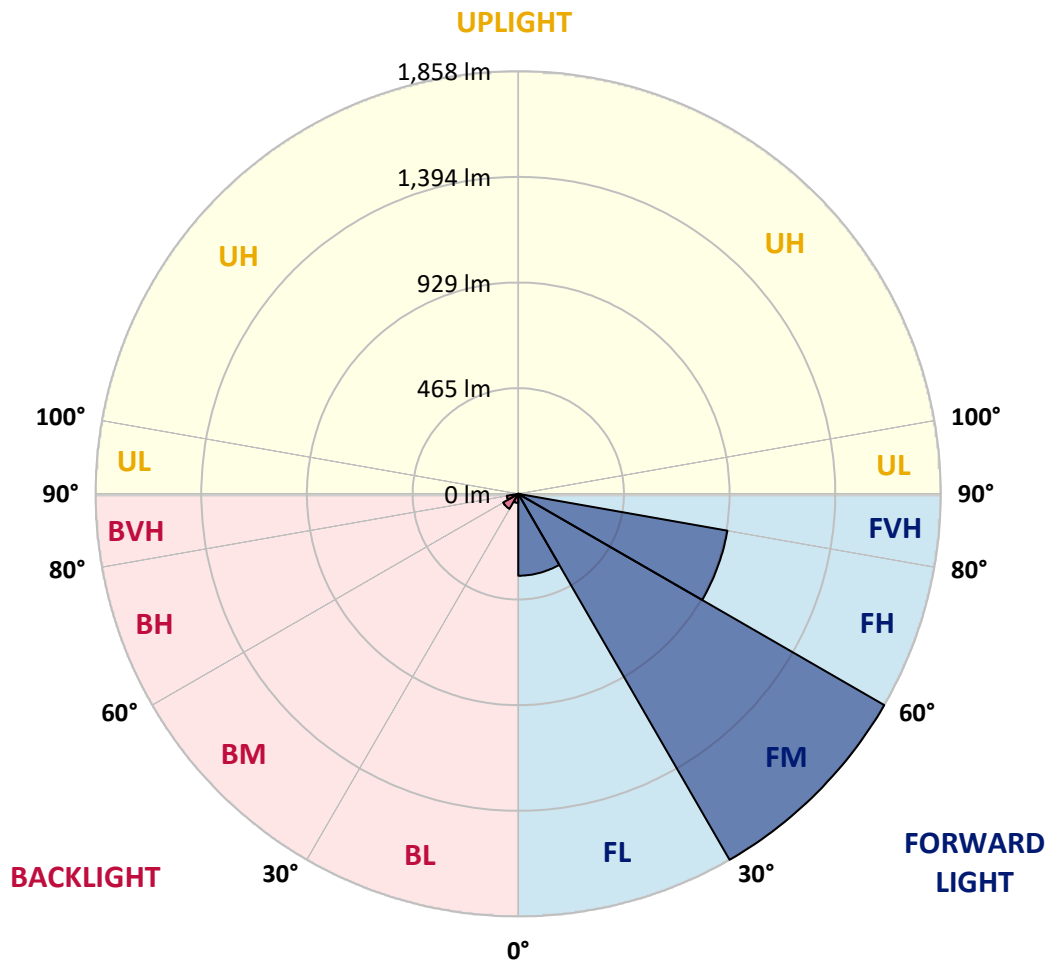
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	360.1	10.8			
FM (30°-60°)	1858.2	55.8			
FH (60°-80°)	934.0	28.0			G1/1800
FVH (80°-90°)	10.8	0.3			G1/100
BL (0°-30°)	39.9	1.2	B0/110		
BM (30°-60°)	76.6	2.3	B0/220		
BH (60°-80°)	50.9	1.5	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	576.0	578.0	574.0	565.0	557.0	538.0	523.0	496.0	467.0	467.0	432.0
5°	643.9	641.9	639.9	632.9	626.9	610.9	590.9	562.0	517.0	513.0	455.0
7.5°	676.9	674.9	670.9	667.9	667.9	656.9	637.9	607.9	558.0	554.0	476.0
10°	715.9	711.9	711.9	703.9	701.9	688.9	678.9	652.9	597.9	592.9	500.0
12.5°	761.9	757.9	758.9	751.9	748.9	734.9	720.9	695.9	640.9	635.9	528.0
15°	787.9	785.9	791.9	792.9	794.9	782.9	769.9	743.9	688.9	681.9	561.0
17.5°	802.9	802.9	809.9	822.9	837.9	830.9	820.9	799.9	737.9	733.9	595.9
20°	831.9	828.9	840.9	852.9	871.9	877.9	874.9	858.9	796.9	784.9	633.9
22.5°	879.9	875.9	886.9	901.9	924.9	926.9	928.9	920.9	856.9	844.9	673.9
25°	992.9	982.9	972.9	970.9	979.9	987.9	981.9	987.9	924.9	913.9	716.9
27.5°	1212.9	1195.9	1147.9	1094.9	1057.9	1064.9	1045.9	1056.9	1002.9	988.9	756.9
30°	1423.9	1406.9	1367.9	1273.9	1188.9	1150.9	1122.9	1118.9	1082.9	1066.9	802.9
32.5°	1570.9	1559.9	1533.9	1470.9	1364.9	1267.9	1213.9	1194.9	1189.9	1164.9	861.9
35°	1670.9	1660.9	1642.9	1591.9	1513.9	1405.9	1312.9	1270.9	1308.9	1278.9	928.9
37.5°	1730.9	1723.9	1703.9	1668.9	1626.9	1555.9	1435.9	1368.9	1428.9	1400.9	1014.9
40°	1774.8	1756.9	1742.9	1715.9	1701.9	1678.9	1575.9	1470.9	1558.9	1529.9	1099.9
42.5°	1778.8	1770.8	1759.8	1743.9	1745.9	1760.8	1724.9	1588.9	1689.9	1662.9	1189.9
45°	1777.8	1769.8	1761.8	1745.9	1755.9	1811.8	1844.8	1712.9	1817.8	1789.8	1284.9
47.5°	1748.9	1742.9	1744.9	1744.9	1757.9	1833.8	1937.8	1838.8	1945.8	1918.8	1399.9
50°	1646.9	1652.9	1692.9	1713.9	1736.9	1834.8	2002.8	1970.8	2083.8	2064.8	1510.9
52.5°	1323.9	1357.9	1519.9	1630.9	1697.9	1814.8	2044.8	2109.8	2258.8	2229.8	1636.9
55°	1011.9	1013.9	1169.9	1427.9	1620.9	1778.8	2068.8	2203.8	2391.8	2375.8	1747.9
57.5°	820.9	819.9	896.9	1128.9	1420.9	1721.9	2074.8	2272.8	2532.8	2502.8	1875.8
60°	670.9	666.9	712.9	855.9	1160.9	1587.9	2052.8	2328.8	2677.8	2666.8	2009.8
62.5°	485.0	489.0	550.0	660.9	894.9	1340.9	2005.8	2345.8	2852.8	2841.8	2159.8
65°	279.0	291.0	358.0	476.0	685.9	1048.9	1871.8	2332.8	3023.7	3022.7	2298.8
67.5°	140.0	141.0	177.0	266.0	461.0	784.9	1575.9	2250.8	3165.7	3143.7	2378.8
70°	90.0	92.0	104.0	137.0	255.0	544.0	1203.9	2018.8	3076.7	3068.7	2261.8
72.5°	69.0	71.0	81.0	90.0	133.0	309.0	814.9	1568.9	2568.8	2546.8	1763.8
75°	54.0	55.0	65.0	73.0	89.0	145.0	409.0	977.9	1654.9	1597.9	1003.9
77.5°	43.0	44.0	49.0	58.0	68.0	81.0	121.0	440.0	672.9	600.9	326.0
80°	28.0	29.0	37.0	45.0	58.0	53.0	47.0	127.0	144.0	130.0	58.0
82.5°	16.0	17.0	25.0	36.0	44.0	30.0	27.0	37.0	34.0	33.0	18.0
85°	5.0	5.0	17.0	25.0	20.0	9.0	17.0	13.0	11.0	10.0	6.0
87.5°	1.0	1.0	8.0	9.0	3.0	1.0	2.0	3.0	4.0	5.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	415.0	395.0	358.0	326.0	295.0	268.0	249.0	232.0	220.0	217.0	212.0
5°	418.0	379.0	308.0	248.0	196.0	154.0	130.0	114.0	106.0	101.0	101.0
7.5°	421.0	363.0	261.0	181.0	124.0	94.0	79.0	72.0	69.0	68.0	67.0
10°	427.0	351.0	221.0	130.0	85.0	71.0	65.0	62.0	60.0	59.0	59.0
12.5°	437.0	341.0	184.0	96.0	70.0	63.0	59.0	55.0	53.0	52.0	52.0
15°	450.0	334.0	152.0	77.0	64.0	57.0	52.0	48.0	45.0	44.0	44.0
17.5°	468.0	329.0	125.0	68.0	59.0	51.0	45.0	41.0	38.0	37.0	37.0
20°	486.0	329.0	103.0	63.0	54.0	45.0	39.0	34.0	31.0	30.0	30.0
22.5°	510.0	328.0	86.0	58.0	48.0	39.0	33.0	27.0	25.0	24.0	24.0
25°	530.0	328.0	74.0	53.0	42.0	34.0	27.0	22.0	20.0	19.0	19.0
27.5°	554.0	325.0	63.0	47.0	36.0	28.0	22.0	18.0	16.0	15.0	15.0
30°	575.0	321.0	56.0	42.0	31.0	23.0	18.0	14.0	13.0	13.0	13.0
32.5°	609.9	318.0	50.0	36.0	26.0	19.0	14.0	11.0	10.0	10.0	10.0
35°	651.9	318.0	46.0	31.0	22.0	16.0	11.0	9.0	8.0	8.0	8.0
37.5°	706.9	321.0	41.0	27.0	18.0	13.0	9.0	7.0	6.0	6.0	6.0
40°	764.9	328.0	37.0	24.0	16.0	10.0	7.0	5.0	4.0	5.0	5.0
42.5°	833.9	335.0	33.0	21.0	13.0	8.0	5.0	3.0	2.0	3.0	3.0
45°	901.9	342.0	31.0	18.0	11.0	6.0	3.0	2.0	1.0	2.0	2.0
47.5°	985.9	359.0	29.0	16.0	9.0	5.0	2.0	1.0	0.0	1.0	1.0
50°	1082.9	378.0	26.0	13.0	7.0	4.0	2.0	0.0	0.0	0.0	0.0
52.5°	1175.9	394.0	23.0	11.0	6.0	3.0	1.0	0.0	0.0	0.0	0.0
55°	1268.9	404.0	20.0	9.0	5.0	3.0	1.0	0.0	0.0	0.0	0.0
57.5°	1368.9	410.0	18.0	8.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0
60°	1479.9	410.0	15.0	7.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0
62.5°	1602.9	398.0	14.0	6.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0
65°	1702.9	355.0	12.0	5.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0
67.5°	1706.9	281.0	11.0	4.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0
70°	1521.9	192.0	9.0	3.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0
72.5°	1138.9	103.0	8.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0
75°	613.9	40.0	5.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0
77.5°	179.0	20.0	3.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0
80°	33.0	10.0	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.0	4.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	4.0	2.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
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)