

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: P595091

Luminaire Tested: **IST-PA1B-830-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595091
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-PA1B-830-U-T2R-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 3000K, 450mA 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: 3320 lumens
Efficiency: N/A
Efficacy: 91.2 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

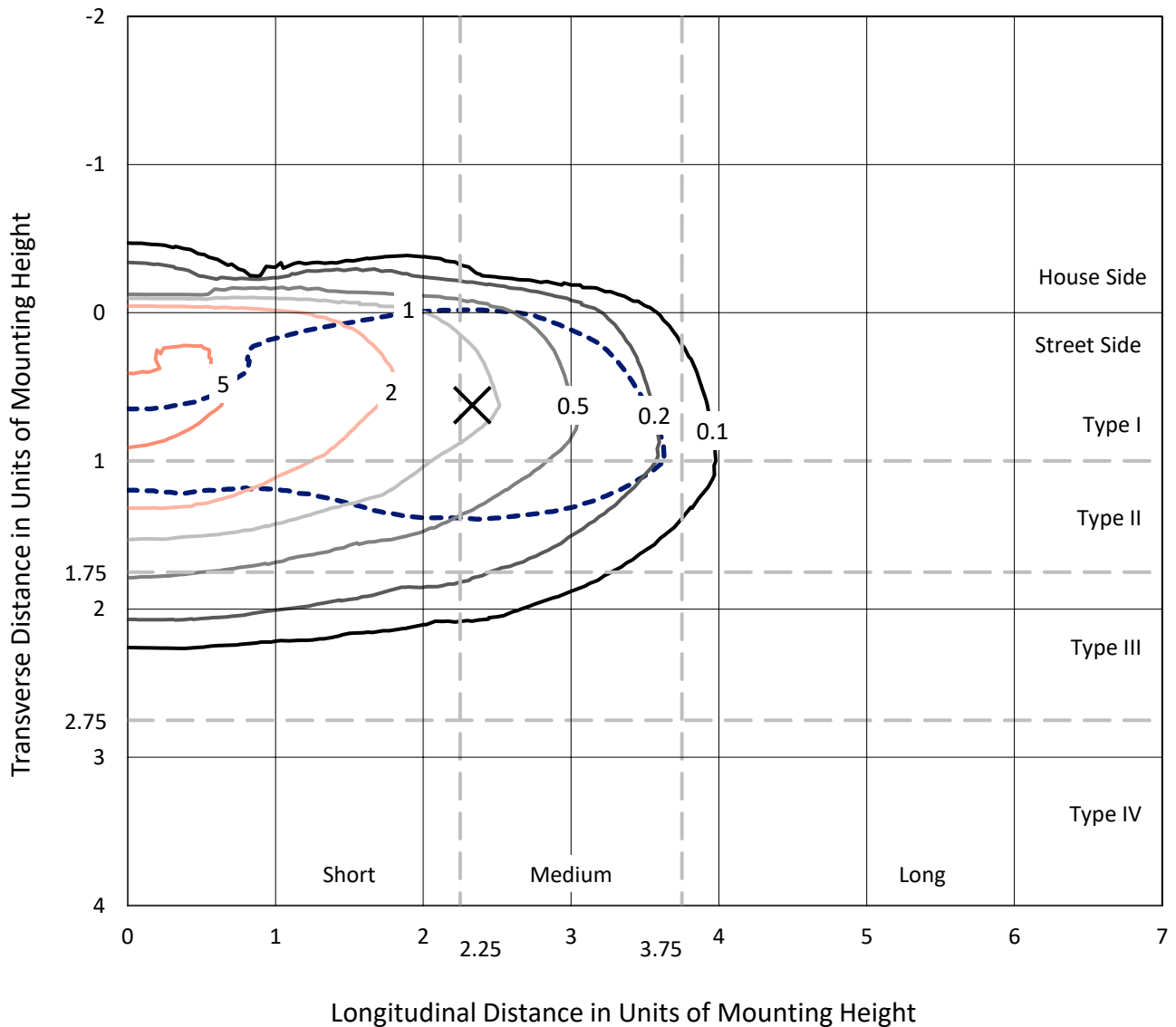
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

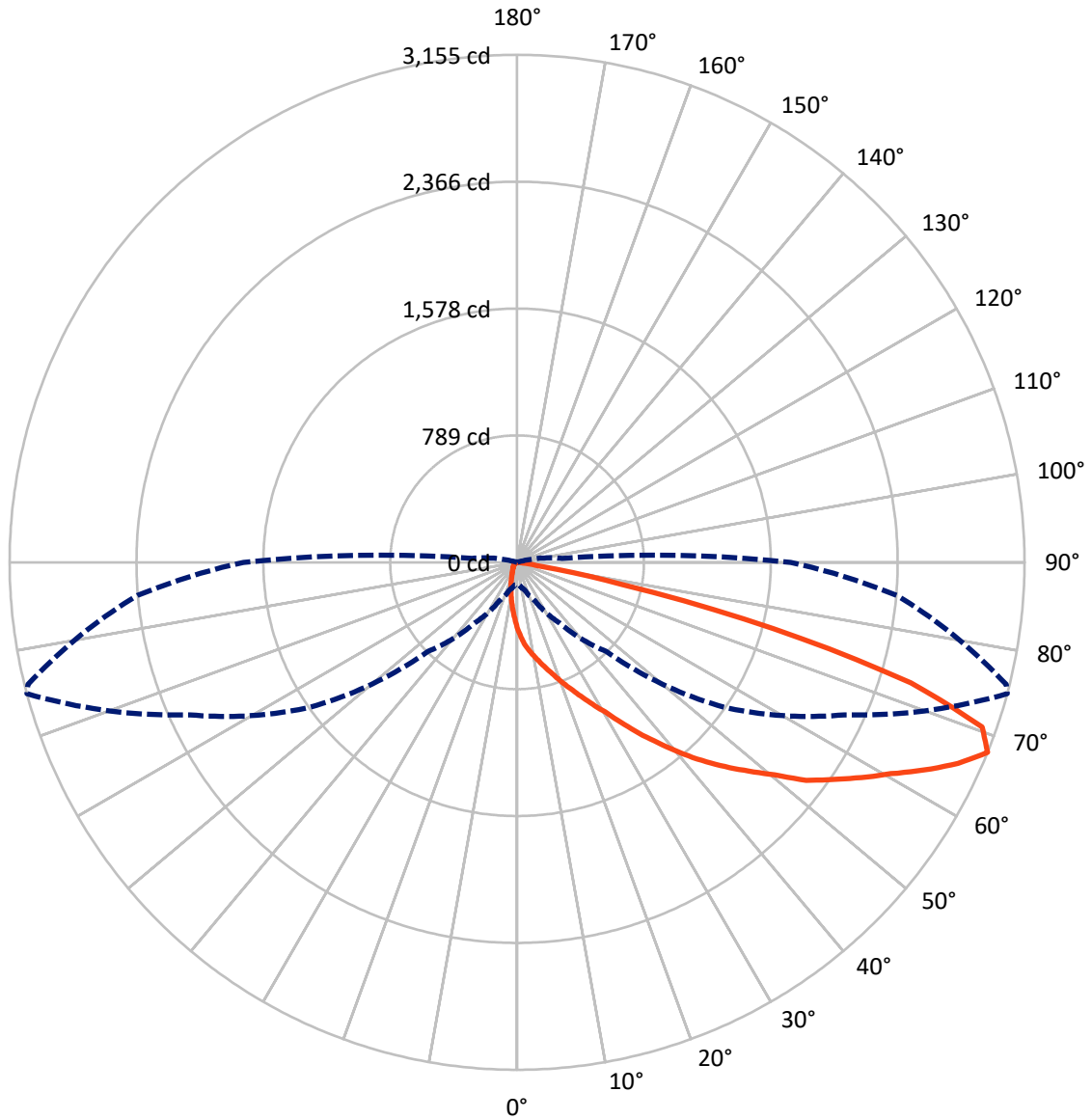
✕ Max cd
 - - - 1/2 Max cd



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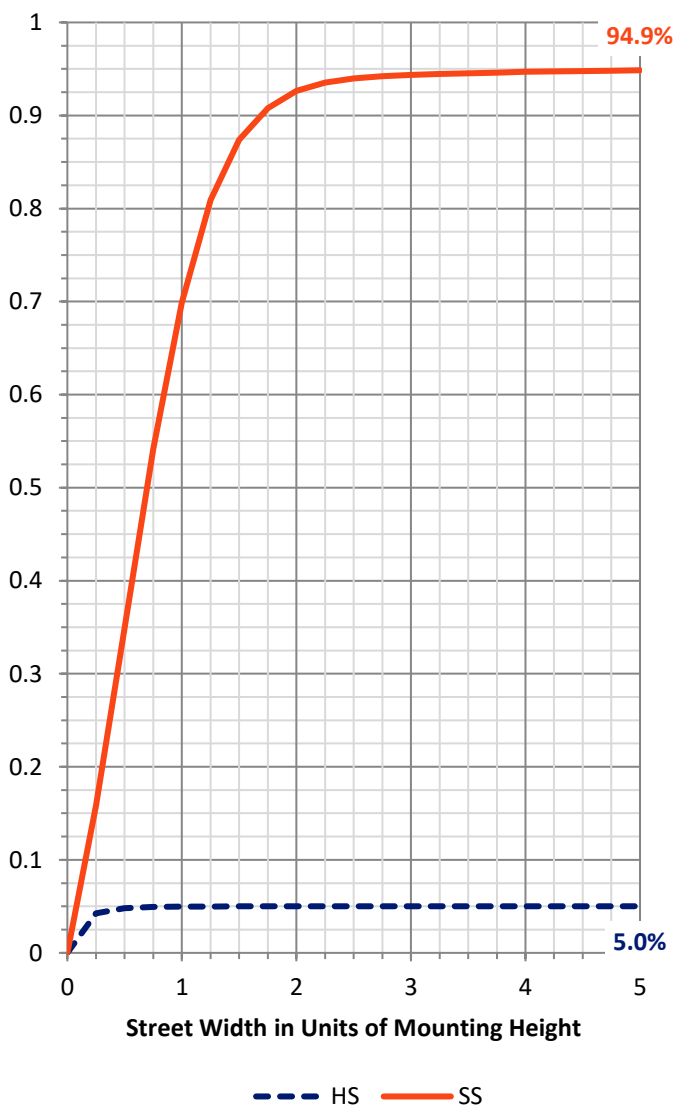
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	167.4	0.0	167.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	3152.6	0.0	3152.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	3320.0	0.0	3320.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.2	1.1
10°-20°	120.1	3.6
20°-30°	241.4	7.3
30°-40°	456.6	13.8
40°-50°	683.1	20.6
50°-60°	788.7	23.8
60°-70°	699.1	21.1
70°-80°	282.6	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°	3320.0	100.0
0°-180°	3320.0	100.0

Coefficient of Utilization

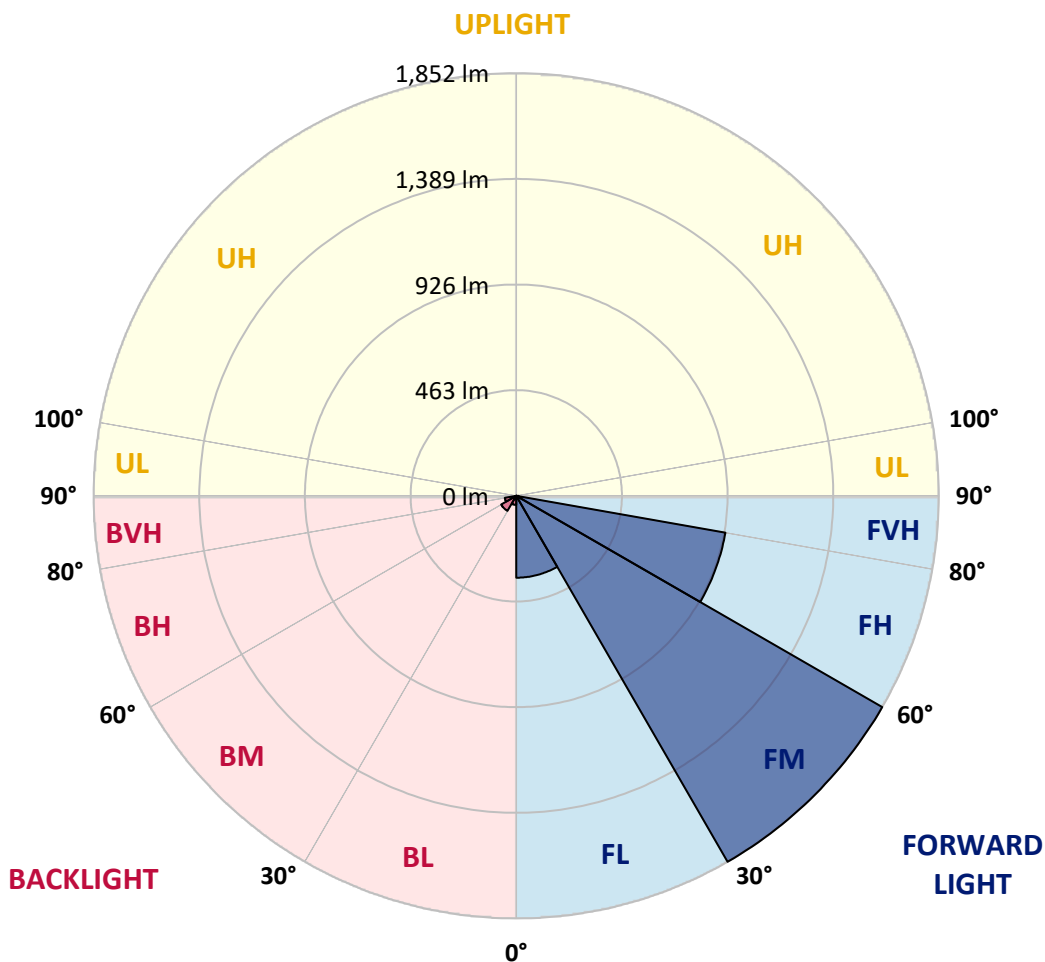


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	358.9	10.8			
FM (30°-60°)	1852.0	55.8			
FH (60°-80°)	930.9	28.0			G1/1800
FVH (80°-90°)	10.8	0.3			G1/100
BL (0°-30°)	39.8	1.2	B0/110		
BM (30°-60°)	76.4	2.3	B0/220		
BH (60°-80°)	50.8	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°	412.6	412.6	412.6	412.6	412.6	412.6	412.6	412.6	412.6	412.6	412.6
2.5°	574.0	576.0	572.1	563.1	555.1	536.2	521.2	494.3	465.4	465.4	430.5
5°	641.8	639.8	637.8	630.9	624.9	608.9	589.0	560.1	515.2	511.3	453.5
7.5°	674.7	672.7	668.7	665.7	665.7	654.8	635.8	605.9	556.1	552.1	474.4
10°	713.6	709.6	709.6	701.6	699.6	686.7	676.7	650.8	596.0	591.0	498.3
12.5°	759.4	755.4	756.4	749.5	746.5	732.5	718.6	693.6	638.8	633.8	526.2
15°	785.3	783.3	789.3	790.3	792.3	780.3	767.4	741.5	686.7	679.7	559.1
17.5°	800.3	800.3	807.3	820.2	835.2	828.2	818.2	797.3	735.5	731.5	594.0
20°	829.2	826.2	838.2	850.1	869.0	875.0	872.0	856.1	794.3	782.3	631.9
22.5°	877.0	873.0	884.0	898.9	921.9	923.9	925.9	917.9	854.1	842.1	671.7
25°	989.6	979.7	969.7	967.7	976.7	984.7	978.7	984.7	921.9	910.9	714.6
27.5°	1208.9	1191.9	1144.1	1091.3	1054.4	1061.4	1042.5	1053.4	999.6	985.6	754.4
30°	1419.2	1402.2	1363.4	1269.7	1185.0	1147.1	1119.2	1115.2	1079.3	1063.4	800.3
32.5°	1565.7	1554.7	1528.8	1466.0	1360.4	1263.7	1209.9	1191.0	1186.0	1161.1	859.1
35°	1665.3	1655.4	1637.4	1586.6	1508.9	1401.2	1308.6	1266.7	1304.6	1274.7	925.9
37.5°	1725.1	1718.2	1698.2	1663.3	1621.5	1550.7	1431.1	1364.4	1424.2	1396.3	1011.6
40°	1769.0	1751.0	1737.1	1710.2	1696.2	1673.3	1570.7	1466.0	1553.7	1524.8	1096.3
42.5°	1773.0	1765.0	1754.0	1738.1	1740.1	1755.0	1719.2	1583.6	1684.3	1657.4	1186.0
45°	1772.0	1764.0	1756.0	1740.1	1750.1	1805.9	1838.8	1707.2	1811.8	1783.9	1280.6
47.5°	1743.1	1737.1	1739.1	1739.1	1752.0	1827.8	1931.4	1832.8	1939.4	1912.5	1395.3
50°	1641.4	1647.4	1687.3	1708.2	1731.1	1828.8	1996.2	1964.3	2076.9	2058.0	1505.9
52.5°	1319.5	1353.4	1514.9	1625.5	1692.2	1808.9	2038.1	2102.9	2251.3	2222.4	1631.5
55°	1008.6	1010.6	1166.0	1423.2	1615.5	1773.0	2062.0	2196.5	2383.9	2368.0	1742.1
57.5°	818.2	817.2	894.0	1125.2	1416.2	1716.2	2068.0	2265.3	2524.4	2494.5	1869.6
60°	668.7	664.7	710.6	853.1	1157.1	1582.6	2046.0	2321.1	2668.9	2658.0	2003.2
62.5°	483.4	487.3	548.1	658.8	892.0	1336.5	1999.2	2338.1	2843.3	2832.4	2152.7
65°	278.1	290.0	356.8	474.4	683.7	1045.4	1865.7	2325.1	3013.8	3012.8	2291.2
67.5°	139.5	140.5	176.4	265.1	459.4	782.3	1570.7	2243.4	3155.3	3133.4	2370.9
70°	89.7	91.7	103.6	136.5	254.1	542.2	1199.9	2012.2	3066.6	3058.6	2254.3
72.5°	68.8	70.8	80.7	89.7	132.5	308.0	812.2	1563.7	2560.3	2538.4	1758.0
75°	53.8	54.8	64.8	72.8	88.7	144.5	407.6	974.7	1649.4	1592.6	1000.6
77.5°	42.9	43.9	48.8	57.8	67.8	80.7	120.6	438.5	670.7	599.0	324.9
80°	27.9	28.9	36.9	44.8	57.8	52.8	46.8	126.6	143.5	129.6	57.8
82.5°	15.9	16.9	24.9	35.9	43.9	29.9	26.9	36.9	33.9	32.9	17.9
85°	5.0	5.0	16.9	24.9	19.9	9.0	16.9	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°	412.6	412.6	412.6	412.6	412.6	412.6	412.6	412.6	412.6	412.6	412.6
2.5°	413.6	393.7	356.8	324.9	294.0	267.1	248.2	231.2	219.3	216.3	211.3
5°	416.6	377.7	307.0	247.2	195.3	153.5	129.6	113.6	105.6	100.7	100.7
7.5°	419.6	361.8	260.1	180.4	123.6	93.7	78.7	71.8	68.8	67.8	66.8
10°	425.6	349.8	220.3	129.6	84.7	70.8	64.8	61.8	59.8	58.8	58.8
12.5°	435.5	339.8	183.4	95.7	69.8	62.8	58.8	54.8	52.8	51.8	51.8
15°	448.5	332.9	151.5	76.7	63.8	56.8	51.8	47.8	44.8	43.9	43.9
17.5°	466.4	327.9	124.6	67.8	58.8	50.8	44.8	40.9	37.9	36.9	36.9
20°	484.4	327.9	102.7	62.8	53.8	44.8	38.9	33.9	30.9	29.9	29.9
22.5°	508.3	326.9	85.7	57.8	47.8	38.9	32.9	26.9	24.9	23.9	23.9
25°	528.2	326.9	73.7	52.8	41.9	33.9	26.9	21.9	19.9	18.9	18.9
27.5°	552.1	323.9	62.8	46.8	35.9	27.9	21.9	17.9	15.9	14.9	14.9
30°	573.1	319.9	55.8	41.9	30.9	22.9	17.9	14.0	13.0	13.0	13.0
32.5°	607.9	316.9	49.8	35.9	25.9	18.9	14.0	11.0	10.0	10.0	10.0
35°	649.8	316.9	45.8	30.9	21.9	15.9	11.0	9.0	8.0	8.0	8.0
37.5°	704.6	319.9	40.9	26.9	17.9	13.0	9.0	7.0	6.0	6.0	6.0
40°	762.4	326.9	36.9	23.9	15.9	10.0	7.0	5.0	4.0	5.0	5.0
42.5°	831.2	333.9	32.9	20.9	13.0	8.0	5.0	3.0	2.0	3.0	3.0
45°	898.9	340.8	30.9	17.9	11.0	6.0	3.0	2.0	1.0	2.0	2.0
47.5°	982.7	357.8	28.9	15.9	9.0	5.0	2.0	1.0	0.0	1.0	1.0
50°	1079.3	376.7	25.9	13.0	7.0	4.0	2.0	0.0	0.0	0.0	0.0
52.5°	1172.0	392.7	22.9	11.0	6.0	3.0	1.0	0.0	0.0	0.0	0.0
55°	1264.7	402.6	19.9	9.0	5.0	3.0	1.0	0.0	0.0	0.0	0.0
57.5°	1364.4	408.6	17.9	8.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0
60°	1475.0	408.6	14.9	7.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0
62.5°	1597.6	396.7	14.0	6.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0
65°	1697.2	353.8	12.0	5.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0
67.5°	1701.2	280.0	11.0	4.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0
70°	1516.8	191.3	9.0	3.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0
72.5°	1135.1	102.7	8.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0
75°	611.9	39.9	5.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0
77.5°	178.4	19.9	3.0	2.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0
80°	32.9	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)