

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: P594980

Luminaire Tested: **IST-PA1A-750-U-T4W-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594980  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: IST-PA1A-750-U-T4W-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 5000K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2962 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

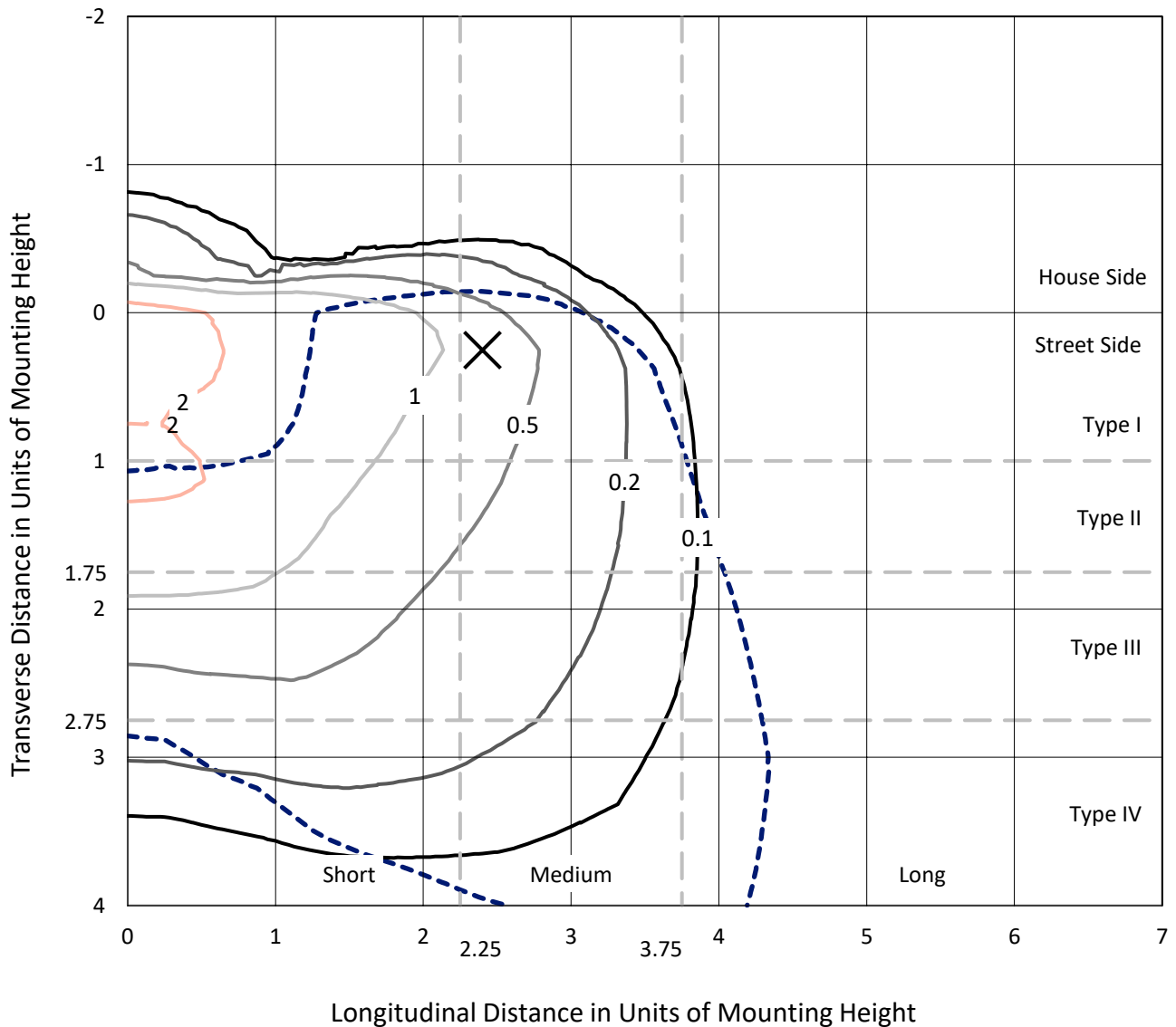
Input Watts (W): 28.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

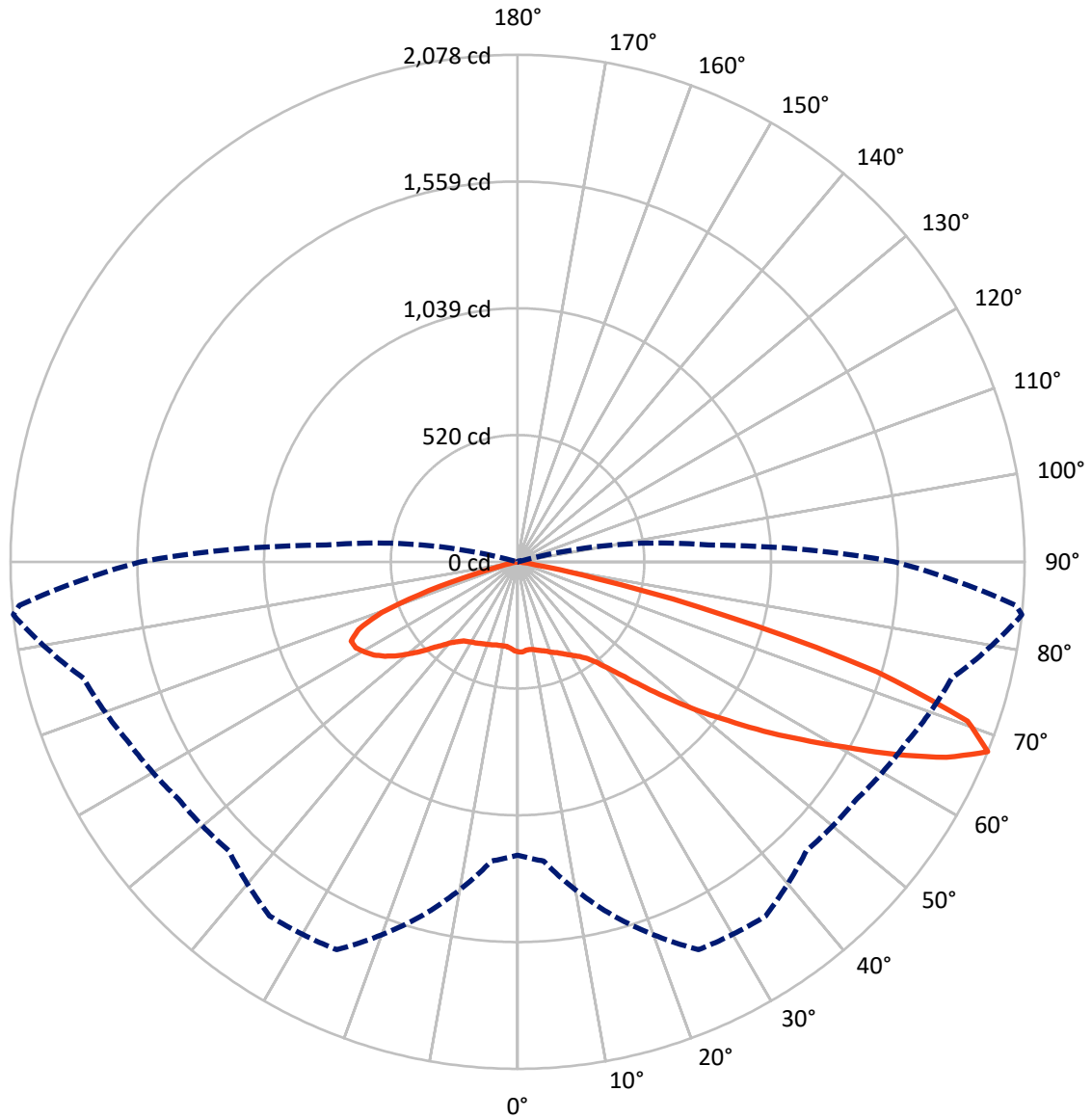
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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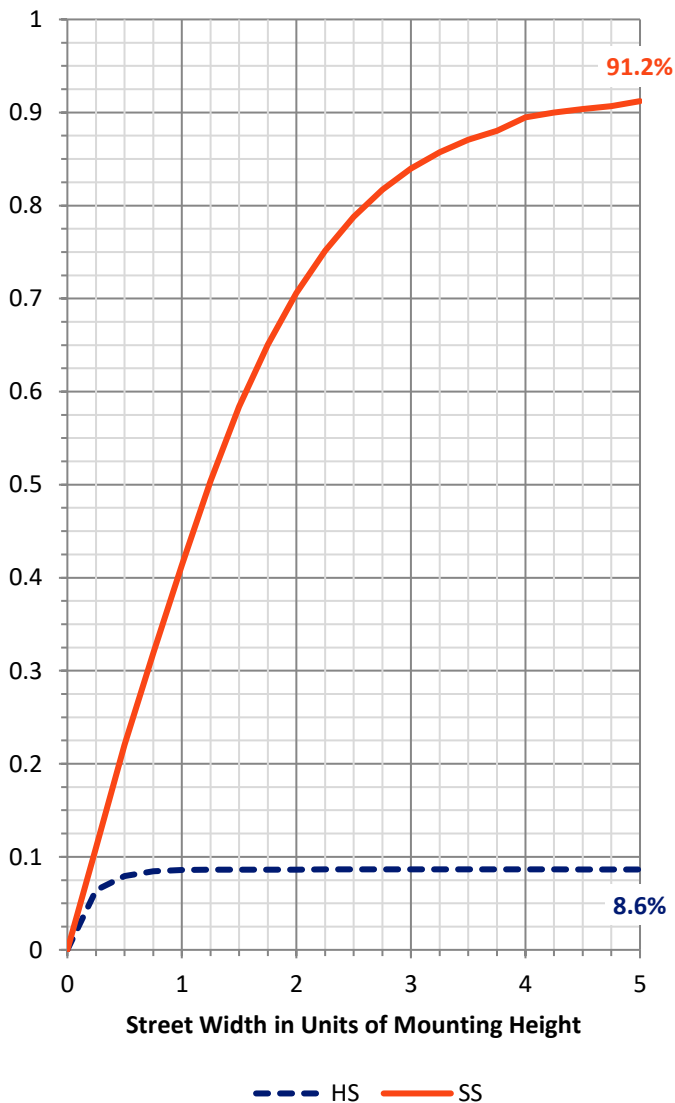
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	257.9	0.0	257.9
	% Fixture	8.7	0.0	8.7
<b>Street Side</b>	Lumens	2704.1	0.0	2704.1
	% Fixture	91.3	0.0	91.3
<b>Total</b>	Lumens	2962.0	0.0	2962.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.1	1.1
10°-20°	86.5	2.9
20°-30°	138.6	4.7
30°-40°	199.5	6.7
40°-50°	342.4	11.6
50°-60°	598.2	20.2
60°-70°	856.6	28.9
70°-80°	643.9	21.7
80°-90°	63.2	2.1
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°	2962.0	100.0
0°-180°	2962.0	100.0

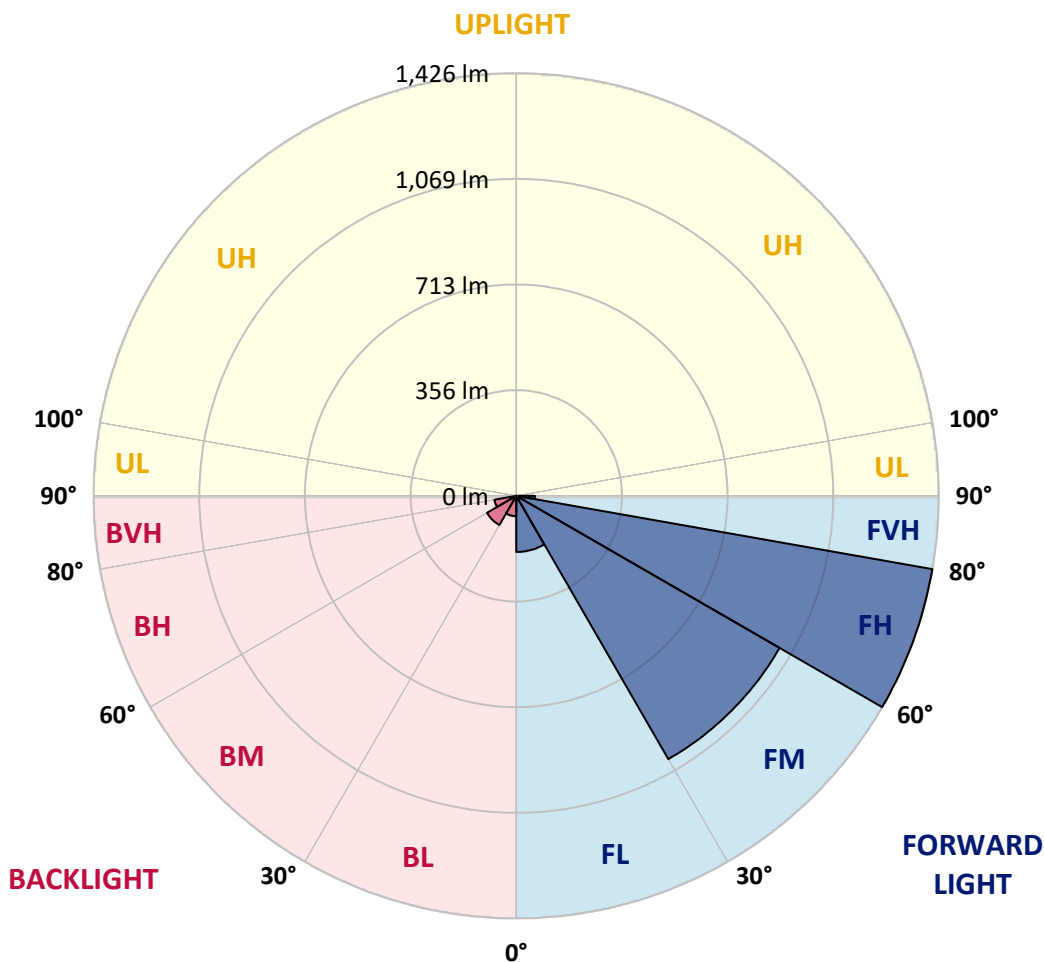


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	189.4	6.4			
FM (30°-60°)	1026.0	34.6			
FH (60°-80°)	1425.7	48.1			G1/1800
FVH (80°-90°)	63.0	2.1			G1/100
BL (0°-30°)	68.9	2.3	B0/110		
BM (30°-60°)	114.0	3.9	B0/220		
BH (60°-80°)	74.8	2.5	B0/110		G0/110
BVH (80°-90°)	0.2	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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	369.0	369.0	369.0	369.0	369.0	369.0	369.0	369.0	369.0	369.0	369.0
2.5°	390.0	392.0	393.0	388.0	388.0	384.0	378.0	376.0	373.0	370.0	369.0
5°	410.0	413.0	412.0	406.0	403.0	395.0	387.0	379.0	371.0	364.0	364.0
7.5°	433.0	434.0	431.0	421.0	415.0	404.0	392.0	383.0	373.0	363.0	361.0
10°	453.0	452.0	448.0	438.0	427.0	413.0	400.0	390.0	378.0	366.0	365.0
12.5°	467.0	468.0	463.0	449.0	438.0	422.0	409.0	399.0	385.0	372.0	369.0
15°	479.0	482.0	476.0	462.0	446.0	432.0	422.0	409.0	393.0	378.0	376.0
17.5°	490.0	491.0	486.0	470.0	455.0	443.0	432.0	420.0	404.0	385.0	383.0
20°	496.0	499.0	496.0	476.0	462.0	453.0	444.0	432.0	414.0	396.0	394.0
22.5°	500.0	503.0	502.0	480.0	468.0	461.0	453.0	442.0	425.0	404.0	402.0
25°	502.0	504.0	506.0	484.0	474.0	471.0	464.0	454.0	438.0	416.0	414.0
27.5°	505.0	507.0	509.0	489.0	485.0	482.0	480.0	472.0	453.0	430.0	427.0
30°	510.0	513.0	515.0	498.0	498.0	501.0	501.0	490.0	469.0	445.0	443.0
32.5°	516.0	517.0	521.0	507.0	512.0	519.0	517.0	506.0	484.0	462.0	459.0
35°	532.0	532.0	539.0	521.0	527.0	533.0	535.0	527.0	507.0	485.0	484.0
37.5°	571.0	571.0	577.0	548.0	547.0	553.0	560.0	560.0	540.0	520.0	518.0
40°	659.1	659.1	659.1	592.0	581.0	588.0	599.0	605.0	588.0	574.0	574.0
42.5°	806.1	807.1	792.1	673.1	626.1	638.1	650.1	663.1	654.1	644.1	642.1
45°	958.1	953.1	951.1	792.1	706.1	700.1	715.1	737.1	740.1	734.1	738.1
47.5°	1062.1	1067.1	1070.1	940.1	818.1	777.1	791.1	822.1	840.1	839.1	845.1
50°	1163.1	1166.1	1169.1	1103.1	966.1	874.1	883.1	925.1	950.1	958.1	962.1
52.5°	1251.1	1243.1	1256.1	1247.1	1123.1	985.1	985.1	1033.1	1078.1	1081.1	1080.1
55°	1277.1	1282.1	1321.1	1348.1	1284.1	1121.1	1101.1	1152.1	1200.1	1225.1	1225.1
57.5°	1335.1	1340.1	1387.1	1448.1	1401.1	1255.1	1225.1	1275.1	1327.1	1375.1	1382.1
60°	1411.1	1412.1	1462.1	1555.1	1490.1	1376.1	1351.1	1408.1	1460.1	1542.1	1565.1
62.5°	1452.1	1456.1	1525.1	1647.1	1602.1	1482.1	1476.1	1528.1	1595.1	1739.1	1760.1
65°	1389.1	1415.1	1565.1	1702.1	1693.1	1581.1	1602.1	1644.1	1721.1	1932.2	1952.2
67.5°	1202.1	1231.1	1499.1	1754.1	1772.1	1674.1	1696.1	1757.1	1842.1	2078.2	2050.2
70°	1107.1	1131.1	1339.1	1783.1	1838.1	1778.1	1788.1	1845.1	1870.1	1956.2	1926.2
72.5°	839.1	864.1	1133.1	1684.1	1895.2	1887.2	1862.1	1815.1	1667.1	1539.1	1466.1
75°	371.0	400.0	754.1	1316.1	1754.1	1949.2	1817.1	1554.1	1197.1	874.1	810.1
77.5°	164.0	181.0	292.0	731.1	1318.1	1687.1	1437.1	1036.1	601.0	325.0	302.0
80°	53.0	55.0	92.0	256.0	674.1	1117.1	880.1	498.0	185.0	76.0	71.0
82.5°	21.0	23.0	44.0	108.0	279.0	444.0	432.0	180.0	54.0	20.0	20.0
85°	6.0	7.0	22.0	57.0	99.0	125.0	153.0	60.0	29.0	6.0	6.0
87.5°	2.0	2.0	8.0	18.0	19.0	13.0	29.0	23.0	18.0	2.0	2.0
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°	369.0	369.0	369.0	369.0	369.0	369.0	369.0	369.0	369.0	369.0	369.0
2.5°	367.0	365.0	360.0	356.0	354.0	351.0	347.0	345.0	345.0	344.0	341.0
5°	360.0	357.0	348.0	342.0	337.0	326.0	318.0	308.0	298.0	295.0	298.0
7.5°	357.0	351.0	339.0	327.0	306.0	277.0	258.0	237.0	230.0	221.0	222.0
10°	358.0	351.0	334.0	307.0	266.0	223.0	193.0	165.0	151.0	144.0	145.0
12.5°	361.0	353.0	329.0	280.0	221.0	169.0	123.0	101.0	97.0	97.0	97.0
15°	367.0	355.0	321.0	248.0	173.0	112.0	87.0	85.0	88.0	91.0	92.0
17.5°	373.0	361.0	309.0	215.0	126.0	84.0	81.0	81.0	84.0	87.0	88.0
20°	380.0	367.0	292.0	180.0	90.0	79.0	78.0	77.0	79.0	82.0	83.0
22.5°	391.0	373.0	272.0	139.0	78.0	76.0	74.0	73.0	74.0	77.0	78.0
25°	401.0	381.0	251.0	103.0	73.0	71.0	70.0	69.0	69.0	71.0	72.0
27.5°	413.0	390.0	228.0	77.0	67.0	66.0	65.0	64.0	63.0	65.0	66.0
30°	428.0	398.0	203.0	65.0	61.0	60.0	59.0	58.0	57.0	58.0	59.0
32.5°	447.0	409.0	174.0	59.0	56.0	53.0	52.0	52.0	51.0	51.0	52.0
35°	472.0	421.0	143.0	55.0	51.0	48.0	45.0	44.0	44.0	44.0	45.0
37.5°	509.0	443.0	113.0	51.0	47.0	42.0	39.0	36.0	36.0	36.0	36.0
40°	560.0	467.0	88.0	48.0	44.0	37.0	33.0	29.0	27.0	26.0	27.0
42.5°	639.1	503.0	68.0	44.0	42.0	33.0	27.0	22.0	18.0	17.0	18.0
45°	726.1	542.0	54.0	41.0	38.0	28.0	21.0	15.0	11.0	10.0	11.0
47.5°	836.1	591.0	46.0	37.0	33.0	23.0	15.0	8.0	5.0	6.0	6.0
50°	942.1	639.1	42.0	34.0	29.0	19.0	9.0	4.0	2.0	3.0	3.0
52.5°	1059.1	690.1	39.0	30.0	25.0	14.0	5.0	1.0	0.0	1.0	1.0
55°	1177.1	736.1	36.0	27.0	20.0	10.0	2.0	0.0	0.0	0.0	1.0
57.5°	1305.1	775.1	33.0	23.0	15.0	6.0	1.0	0.0	0.0	0.0	0.0
60°	1412.1	805.1	30.0	20.0	10.0	3.0	0.0	0.0	0.0	0.0	0.0
62.5°	1510.1	832.1	23.0	15.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0
65°	1575.1	838.1	16.0	10.0	4.0	1.0	0.0	0.0	0.0	0.0	0.0
67.5°	1546.1	786.1	10.0	7.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
70°	1359.1	660.1	7.0	4.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	951.1	426.0	6.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
75°	502.0	154.0	4.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
77.5°	178.0	34.0	2.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0
80°	39.0	7.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.0	0.0	0.0	0.0	0.0	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)