

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: P595005

Luminaire Tested: **IST-PA1A-830-U-T3-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595005  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: IST-PA1A-830-U-T3-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 80 CRI, 3000K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2386 lumens  
Efficiency: N/A  
Efficacy: 82.8 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type III - 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

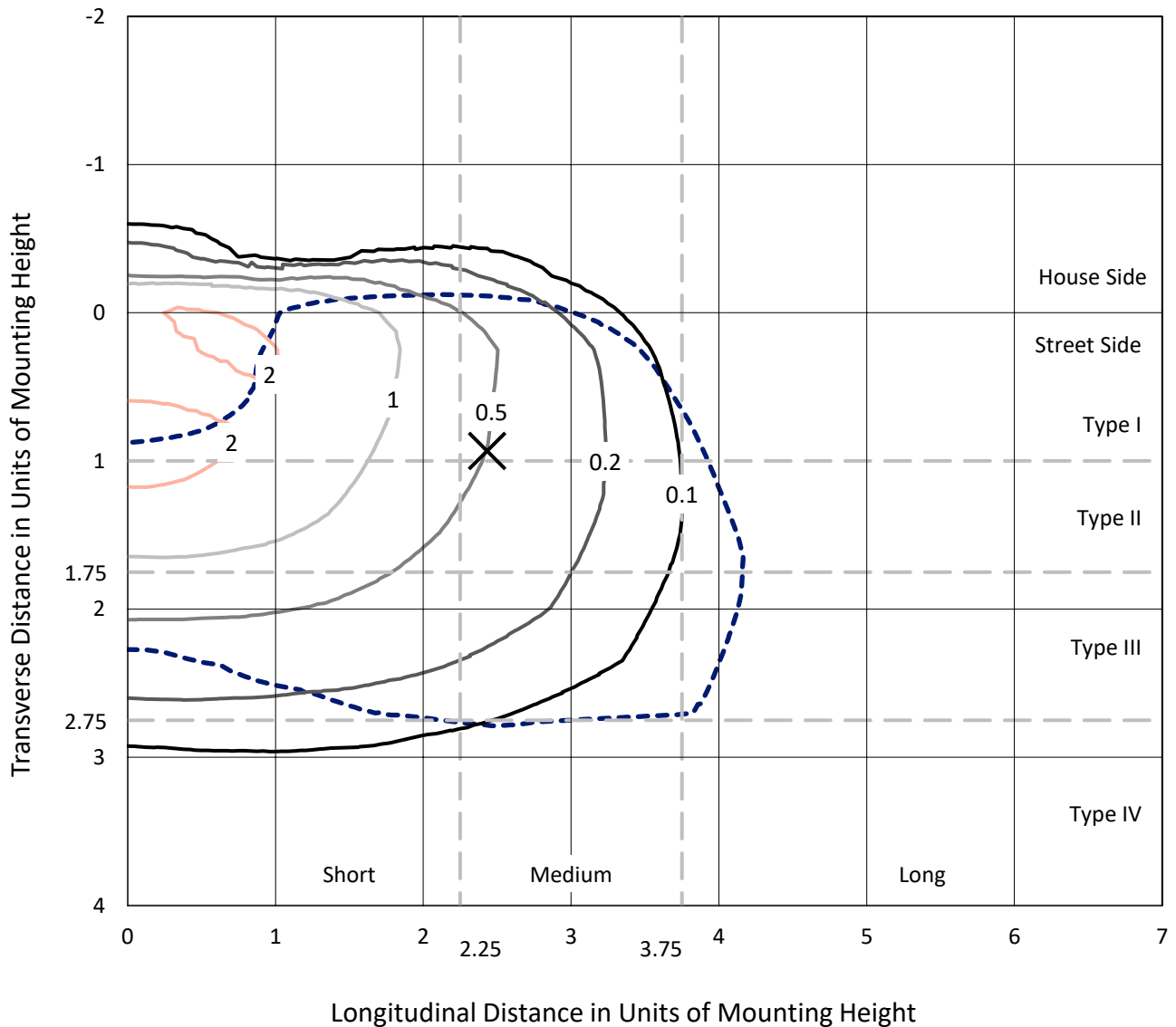




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### Iso-Footcandle Lines of Horizontal Illumination

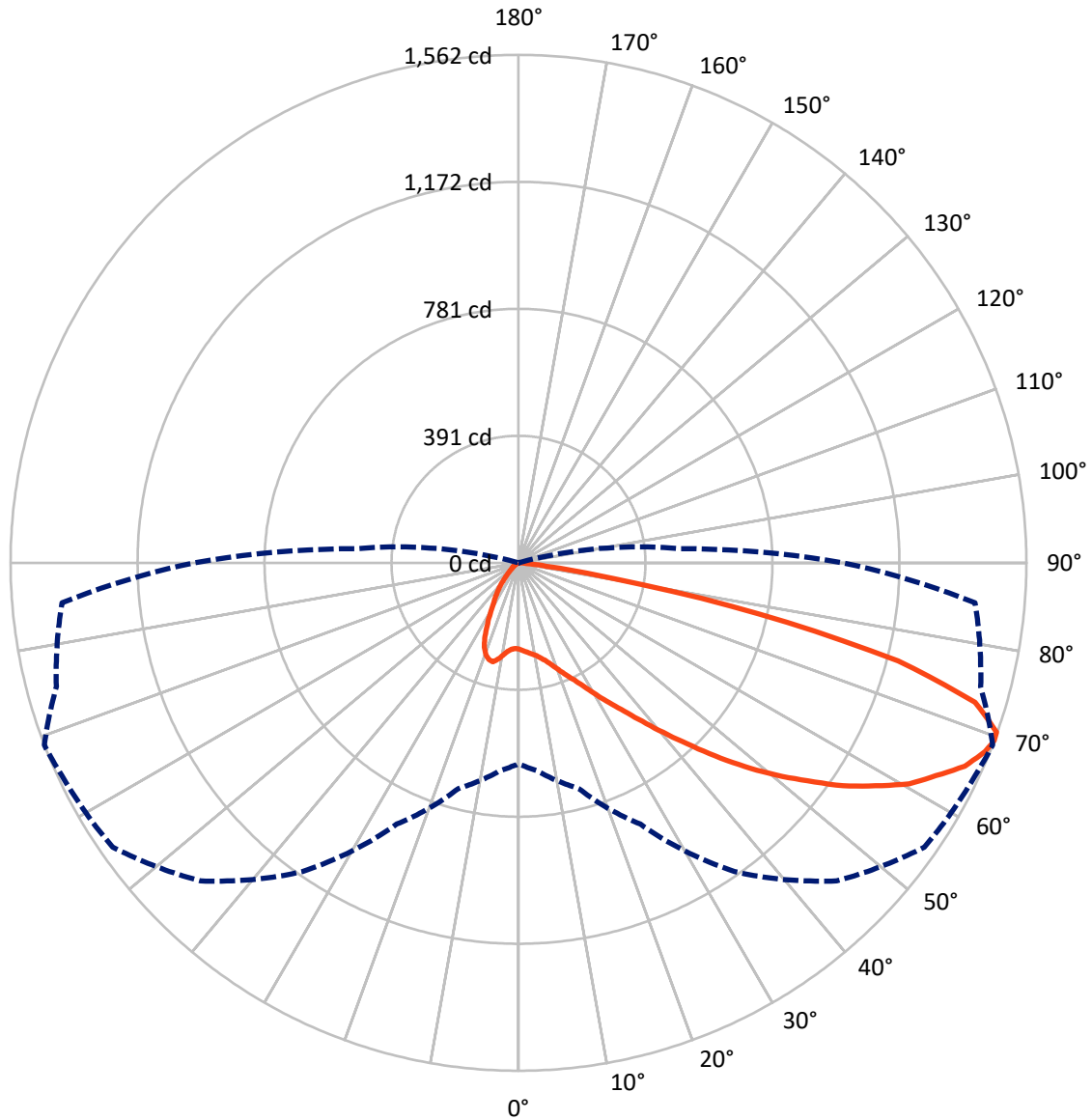
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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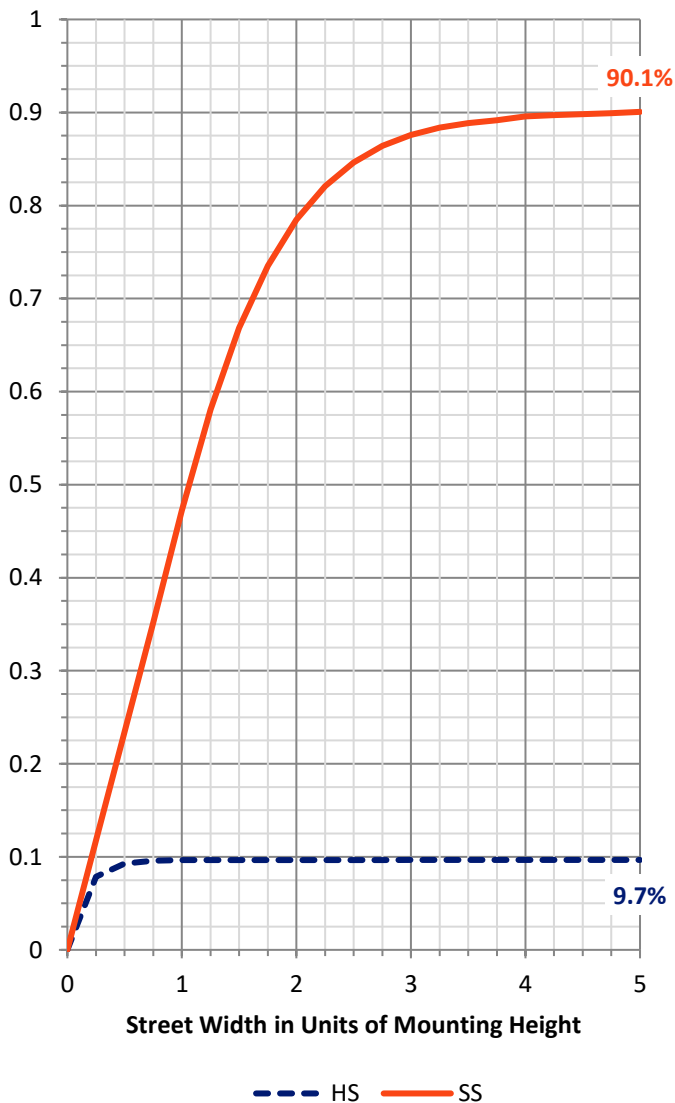
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	232.5	0.0	232.5
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	2153.5	0.0	2153.5
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	2386.0	0.0	2386.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.3	1.1
10°-20°	67.0	2.8
20°-30°	111.5	4.7
30°-40°	200.7	8.4
40°-50°	363.9	15.3
50°-60°	568.7	23.8
60°-70°	658.0	27.6
70°-80°	368.0	15.4
80°-90°	23.0	1.0
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°	2386.0	100.0
0°-180°	2386.0	100.0

**Coefficient of Utilization**

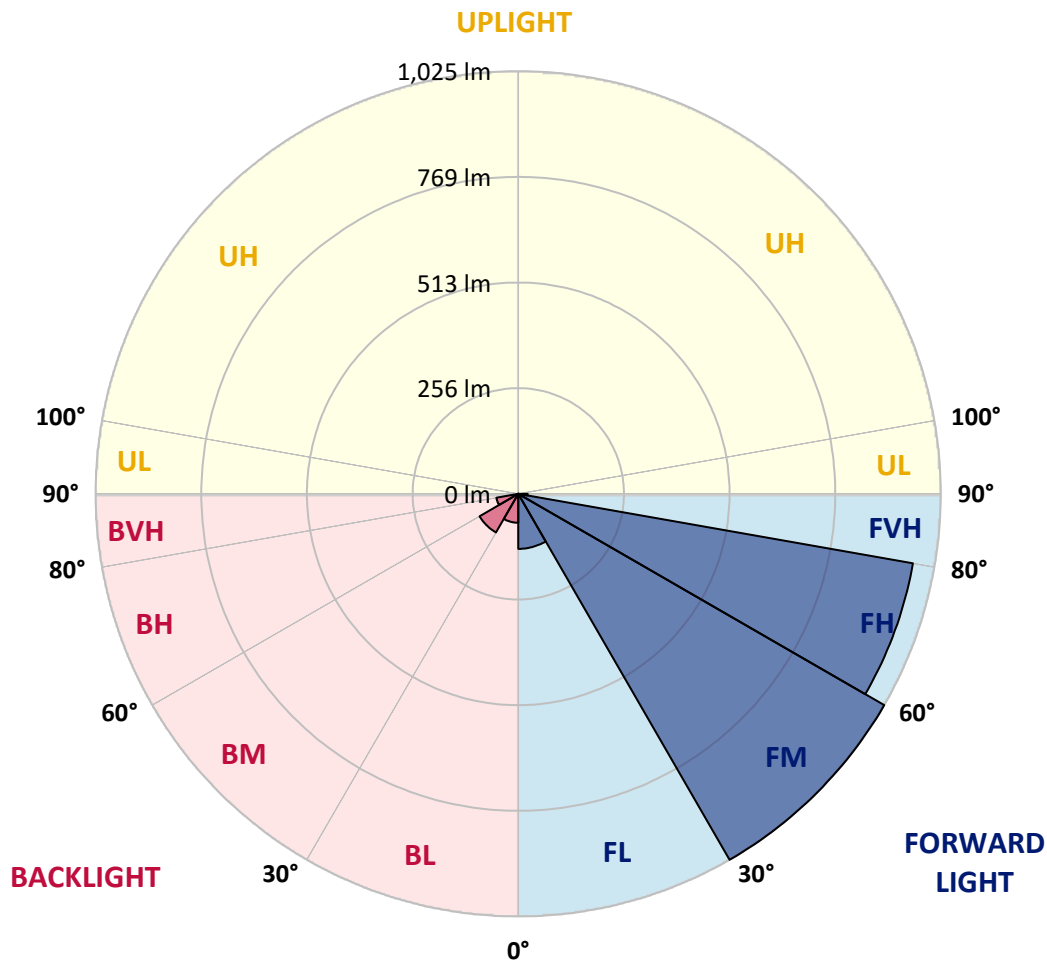


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	133.5	5.6			
FM (30°-60°)	1025.1	43.0			
FH (60°-80°)	972.1	40.7			G1/1800
FVH (80°-90°)	22.8	1.0			G1/100
BL (0°-30°)	70.3	2.9	B0/110		
BM (30°-60°)	108.2	4.5	B0/220		
BH (60°-80°)	53.8	2.3	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	265.4	265.4	265.4	265.4	265.4	265.4	265.4	265.4	265.4	265.4	265.4
2.5°	274.9	274.9	274.9	273.4	274.1	273.4	272.6	270.2	271.0	270.2	267.8
5°	265.4	266.2	268.6	270.2	274.1	275.7	276.5	276.5	275.7	274.1	272.6
7.5°	247.1	247.1	249.5	254.3	262.2	271.0	278.1	282.1	282.9	282.9	280.5
10°	242.4	242.4	245.5	248.7	256.7	267.0	278.1	287.7	289.2	290.8	290.0
12.5°	240.0	240.8	243.9	249.5	259.8	269.4	281.3	294.8	299.6	303.5	304.3
15°	243.2	243.2	246.3	251.9	263.8	277.3	292.4	307.5	312.3	317.8	321.8
17.5°	247.9	249.5	251.1	256.7	267.8	284.5	304.3	324.2	329.8	336.9	340.1
20°	255.9	255.9	257.5	262.2	274.1	294.0	321.8	345.7	350.4	355.2	359.2
22.5°	265.4	266.2	266.2	270.2	283.7	305.1	336.9	366.3	374.3	376.7	378.2
25°	294.0	292.4	286.9	284.5	294.8	317.8	355.2	391.0	399.7	402.1	398.9
27.5°	353.6	347.3	332.2	316.3	314.7	337.7	379.8	421.9	431.5	432.3	421.2
30°	428.3	429.1	404.5	370.3	347.3	359.2	406.8	460.9	470.4	466.4	449.0
32.5°	520.5	516.5	498.2	449.0	402.9	392.5	436.2	501.4	512.5	506.2	483.1
35°	599.1	601.5	579.3	535.6	477.6	444.2	472.0	546.7	560.2	549.1	520.5
37.5°	665.1	668.3	654.8	619.0	567.4	514.9	518.9	599.9	618.2	607.1	571.3
40°	738.2	740.6	735.0	696.1	650.0	599.1	581.7	661.1	685.8	670.7	633.3
42.5°	818.5	827.2	817.7	786.7	739.0	695.3	669.1	735.8	760.5	750.9	700.9
45°	928.1	928.9	917.8	886.8	837.5	801.8	770.0	815.3	847.1	835.1	776.3
47.5°	1009.2	1014.7	1008.4	986.9	947.2	923.4	879.6	902.7	936.1	921.0	854.2
50°	1071.2	1086.2	1080.7	1087.0	1067.2	1056.8	990.1	993.3	1025.9	1013.1	933.7
52.5°	1105.3	1124.4	1126.0	1158.6	1175.2	1200.7	1097.4	1092.6	1113.3	1102.1	1014.7
55°	1100.6	1105.3	1145.1	1204.6	1269.8	1327.8	1202.3	1182.4	1211.0	1180.0	1100.6
57.5°	1054.5	1066.4	1136.3	1210.2	1325.4	1409.7	1292.9	1270.6	1294.4	1253.1	1188.8
60°	988.5	1006.0	1095.8	1201.5	1358.0	1458.9	1381.1	1358.8	1380.3	1330.2	1288.9
62.5°	928.9	936.9	1019.5	1164.9	1338.9	1456.5	1449.4	1428.7	1441.4	1389.0	1374.7
65°	843.9	847.1	928.9	1099.0	1296.8	1440.7	1486.7	1494.7	1508.2	1438.3	1435.9
67.5°	712.8	719.9	801.0	983.7	1226.9	1409.7	1516.1	1532.0	1547.9	1464.5	1447.0
69°	618.2	641.3	719.1	886.8	1159.4	1383.4	1524.1	1549.5	1562.2	1471.6	1409.7
70°	541.1	561.0	650.8	812.1	1099.8	1354.0	1529.6	1547.1	1559.8	1456.5	1348.5
72.5°	271.8	297.2	420.4	592.8	874.1	1219.7	1501.0	1482.0	1468.5	1339.7	1091.0
75°	104.9	108.9	180.4	337.7	546.7	895.5	1281.7	1246.0	1206.2	1016.3	646.8
77.5°	58.0	57.2	78.7	149.4	232.8	437.8	866.9	809.7	754.9	545.9	262.2
80°	24.6	26.2	34.2	71.5	122.4	151.8	421.2	374.3	298.0	173.2	62.8
82.5°	15.1	15.9	23.8	43.7	85.0	58.0	136.7	116.8	85.8	46.9	15.1
85°	4.8	5.6	16.7	29.4	41.3	23.8	31.0	27.0	23.8	19.9	4.8
87.5°	0.8	0.8	6.4	15.9	11.1	4.0	3.2	5.6	8.7	9.5	1.6
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°	265.4	265.4	265.4	265.4	265.4	265.4	265.4	265.4	265.4	265.4	265.4
2.5°	267.0	265.4	263.8	263.0	263.0	261.4	260.6	259.8	259.8	259.0	259.0
5°	270.2	268.6	267.0	266.2	264.6	263.8	263.8	263.8	263.0	263.8	264.6
7.5°	278.1	275.7	274.9	274.1	274.1	271.8	267.8	257.5	247.1	243.9	240.8
10°	289.2	288.4	288.4	288.4	282.9	262.2	233.6	208.2	194.7	183.6	183.6
12.5°	305.1	305.1	304.3	302.0	273.4	223.3	178.8	140.6	118.4	105.7	107.3
15°	322.6	321.8	323.4	308.3	240.8	172.4	108.1	76.3	64.4	62.8	62.8
17.5°	340.9	342.5	340.9	291.6	197.9	106.5	64.4	58.0	56.4	56.4	56.4
20°	360.0	358.4	356.0	263.0	143.8	66.7	55.6	54.0	52.4	51.7	51.7
22.5°	379.0	377.4	361.6	226.5	89.8	54.8	52.4	49.3	46.9	46.1	46.1
25°	397.3	397.3	351.2	179.6	61.2	51.7	47.7	44.5	42.1	39.7	39.7
27.5°	420.4	421.9	334.5	125.6	51.7	47.7	42.9	38.1	35.0	33.4	33.4
30°	446.6	449.0	307.5	81.8	46.9	42.1	37.3	31.8	27.0	25.4	24.6
32.5°	477.6	480.0	276.5	54.0	42.1	36.6	31.0	23.8	19.1	18.3	17.5
35°	517.3	511.7	239.2	42.9	36.6	31.0	23.8	16.7	13.5	12.7	12.7
37.5°	566.6	554.6	196.3	37.3	31.0	24.6	17.5	11.1	8.7	8.7	7.9
40°	623.0	589.6	151.8	33.4	26.2	19.1	11.1	7.2	5.6	5.6	5.6
42.5°	685.0	619.0	108.1	29.4	21.5	13.5	7.2	4.0	3.2	3.2	3.2
45°	756.5	646.0	73.9	25.4	18.3	9.5	4.0	1.6	1.6	1.6	1.6
47.5°	828.0	663.5	49.3	22.2	13.5	5.6	2.4	0.8	0.8	0.8	0.8
50°	900.3	677.0	38.1	19.1	9.5	3.2	0.8	0.0	0.0	0.0	0.0
52.5°	964.7	686.6	31.0	15.9	6.4	2.4	0.8	0.0	0.0	0.0	0.0
55°	1020.3	687.3	27.0	12.7	4.8	1.6	0.0	0.0	0.0	0.0	0.0
57.5°	1076.7	681.0	23.0	9.5	3.2	0.8	0.0	0.0	0.0	0.0	0.0
60°	1110.9	664.3	18.3	7.2	2.4	0.8	0.0	0.0	0.0	0.0	0.0
62.5°	1131.5	636.5	14.3	4.8	1.6	0.8	0.0	0.0	0.0	0.0	0.0
65°	1119.6	601.5	10.3	3.2	1.6	0.8	0.0	0.0	0.0	0.0	0.0
67.5°	1064.0	547.5	7.2	2.4	0.8	0.8	0.0	0.0	0.0	0.0	0.0
69°	998.0	498.2	6.4	1.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0
70°	940.0	460.1	5.6	1.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0
72.5°	700.1	296.4	4.8	1.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0
75°	393.3	99.3	3.2	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	147.8	25.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	32.6	6.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	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)