

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: P595003

Luminaire Tested: **IST-PA1A-830-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595003  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)  
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-T2U-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 80 CRI, 3000K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2312 lumens  
Efficiency: N/A  
Efficacy: 80.3 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1

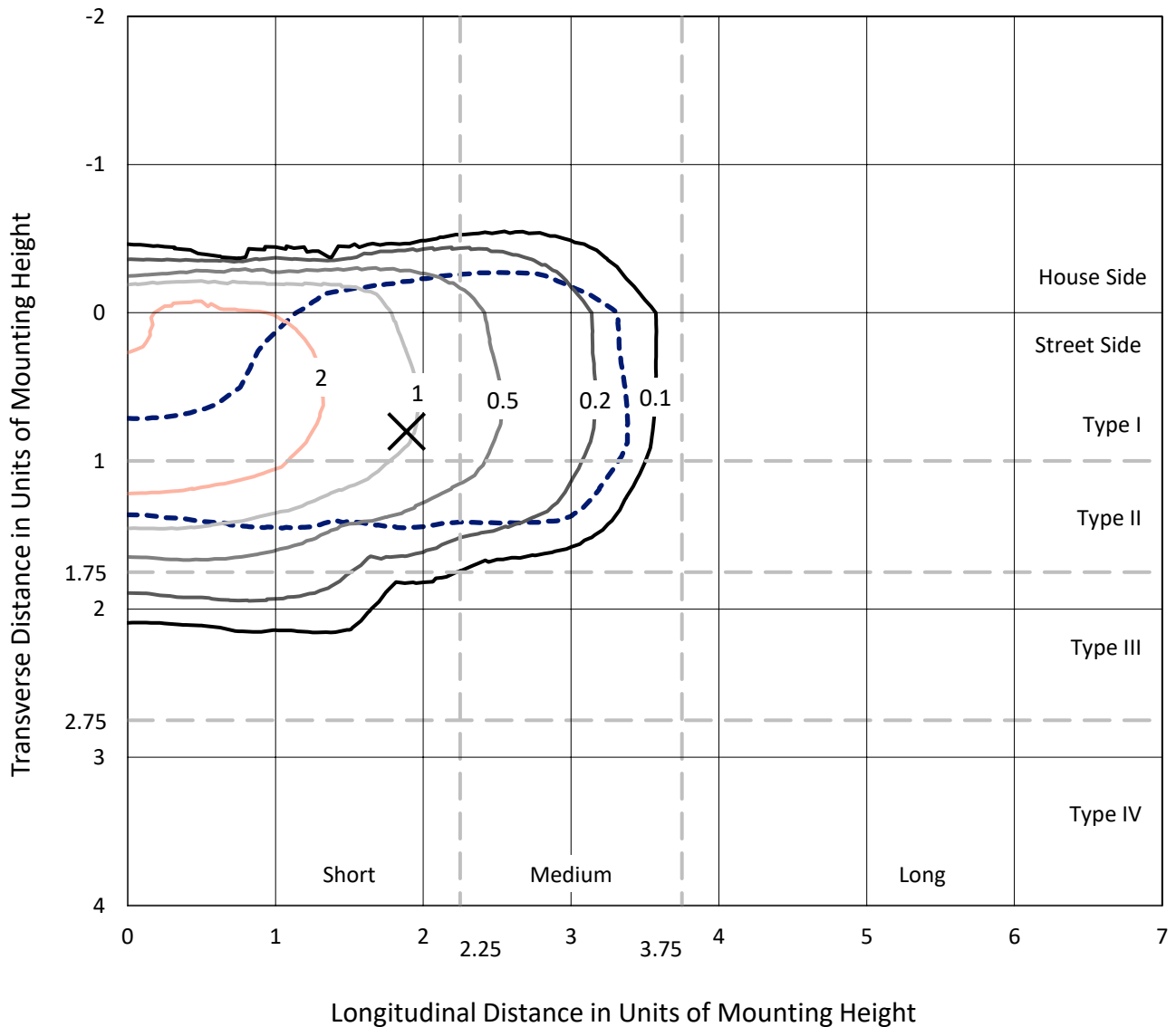
Input Watts (W): 28.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

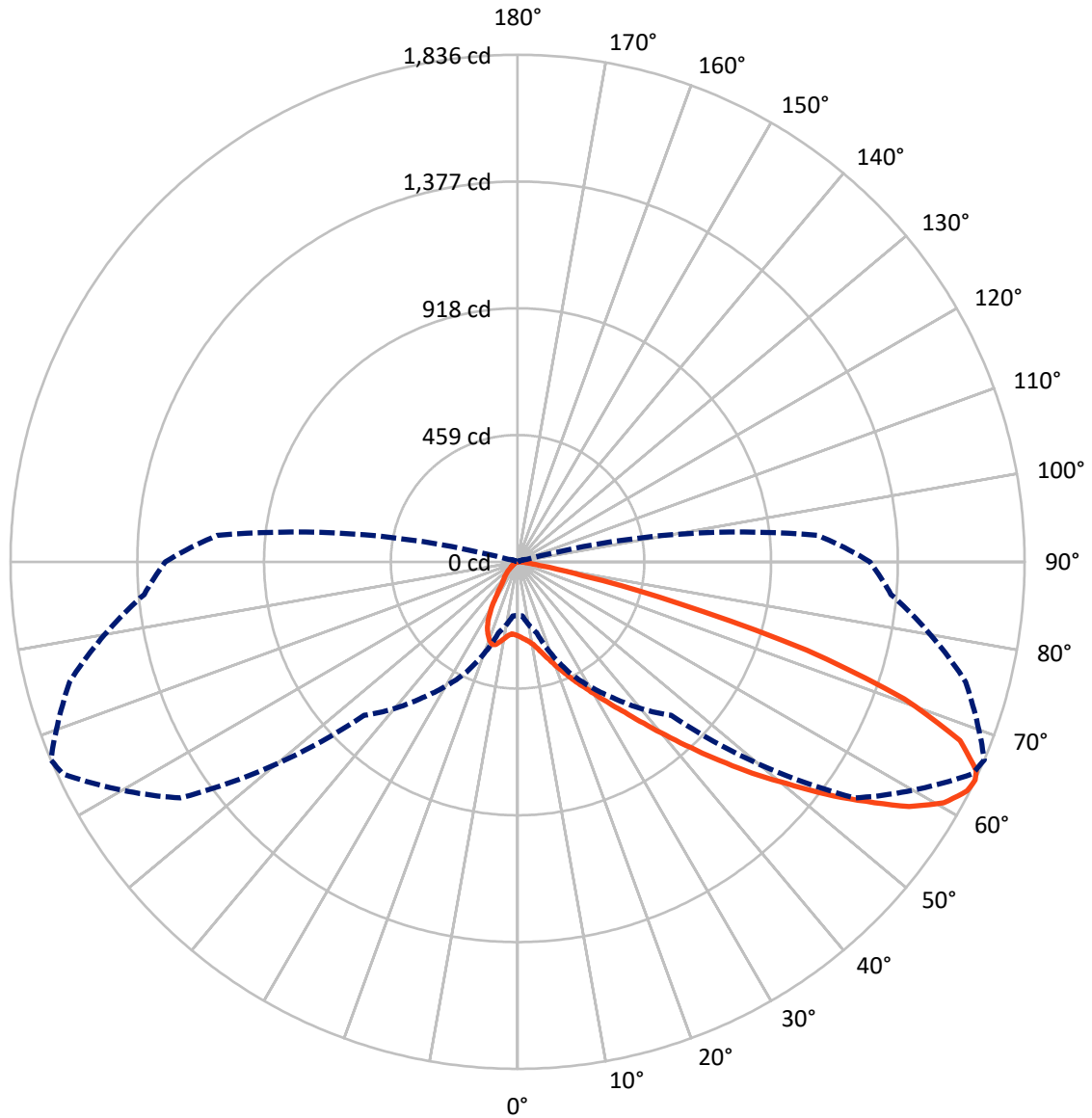
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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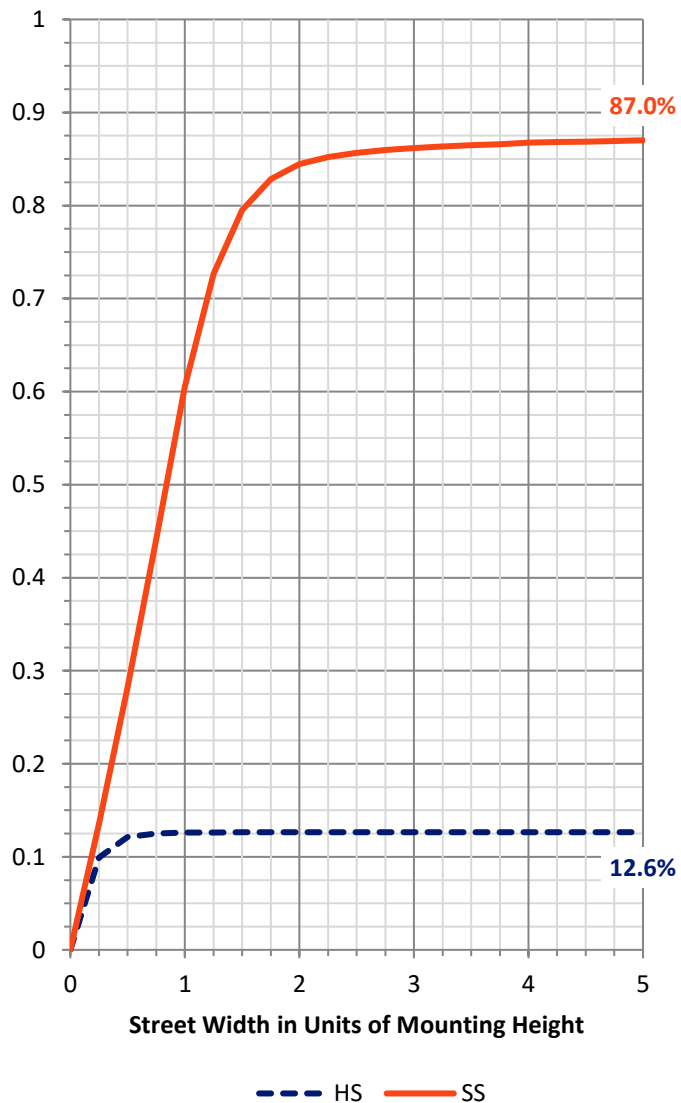
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	295.8	0.0	295.8
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	2016.2	0.0	2016.2
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	2312.0	0.0	2312.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.5	1.1
10°-20°	75.2	3.3
20°-30°	136.5	5.9
30°-40°	261.4	11.3
40°-50°	481.8	20.8
50°-60°	622.3	26.9
60°-70°	509.8	22.0
70°-80°	187.4	8.1
80°-90°	12.1	0.5
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°	2312.0	100.0
0°-180°	2312.0	100.0

**Coefficient of Utilization**

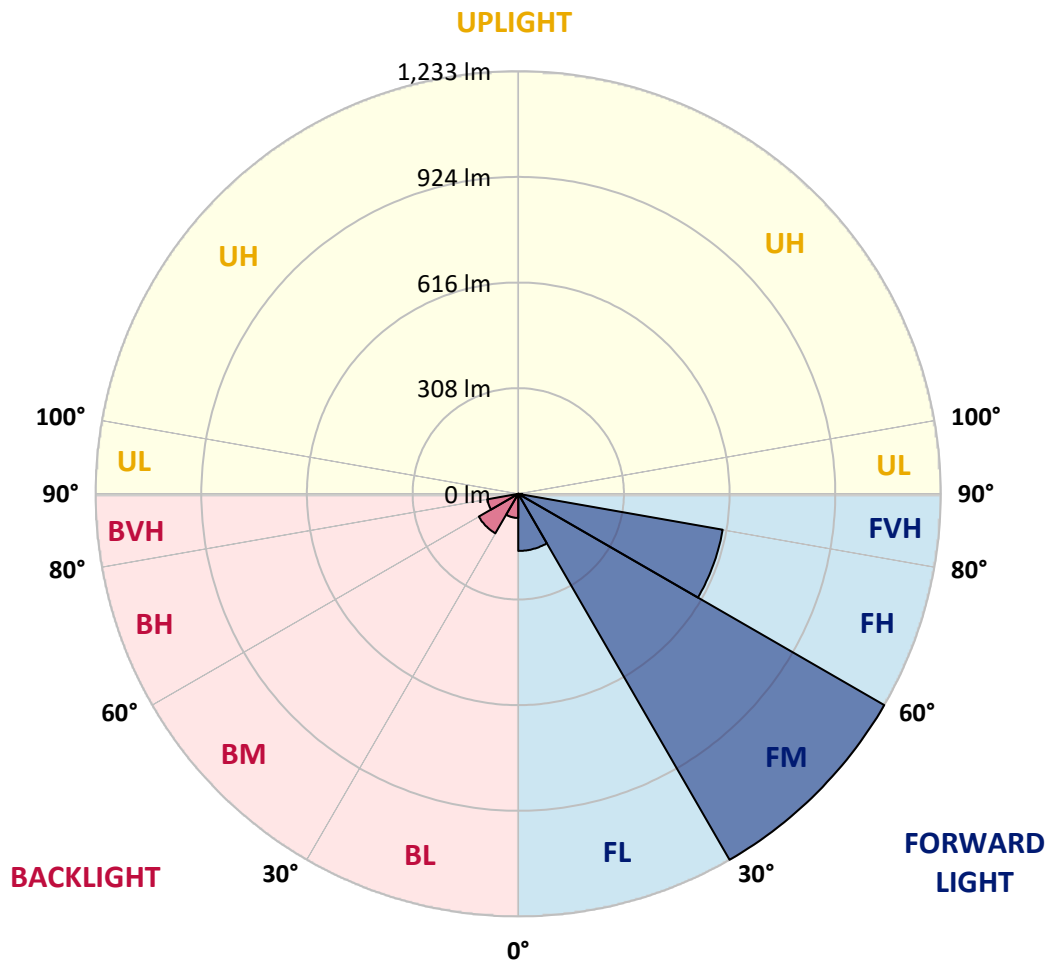


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	166.7	7.2			
FM (30°-60°)	1232.6	53.3			
FH (60°-80°)	605.4	26.2			G0/660
FVH (80°-90°)	11.5	0.5			G1/100
BL (0°-30°)	70.5	3.0	B0/110		
BM (30°-60°)	133.0	5.8	B0/220		
BH (60°-80°)	91.8	4.0	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	268.6	268.6	268.6	268.6	268.6	268.6	268.6	268.6	268.6	268.6	268.6
2.5°	278.2	278.2	279.8	279.0	279.0	277.4	275.0	275.8	275.0	274.2	271.8
5°	273.4	274.2	275.0	276.6	279.8	281.4	281.4	282.2	282.2	281.4	278.2
7.5°	271.0	272.6	274.2	275.8	279.8	282.2	286.1	290.9	290.9	291.7	288.5
10°	279.8	281.4	283.7	286.1	290.1	294.1	297.3	302.8	302.8	304.4	303.6
12.5°	298.1	298.1	298.8	300.4	306.0	310.8	316.3	321.1	321.9	322.7	320.3
15°	320.3	320.3	321.1	321.1	324.3	331.4	341.8	346.5	345.7	344.9	340.2
17.5°	345.7	345.7	345.7	346.5	348.1	352.1	364.0	373.6	372.8	372.0	362.4
20°	369.6	371.2	372.8	373.6	375.1	378.3	391.0	402.2	404.6	401.4	384.7
22.5°	396.6	397.4	398.2	400.6	404.6	406.1	418.9	435.6	437.9	434.0	411.7
25°	423.6	425.2	427.6	430.8	434.8	442.7	451.4	473.7	476.1	471.3	441.1
27.5°	483.2	482.4	475.3	469.7	470.5	476.1	488.0	511.9	514.2	509.5	470.5
30°	585.0	575.4	561.9	537.3	513.4	515.8	532.5	555.6	559.5	553.2	503.1
32.5°	729.6	720.1	686.7	632.7	580.2	562.7	584.2	606.4	611.2	604.0	541.3
35°	870.3	867.9	836.1	771.0	681.9	633.5	639.0	667.6	669.2	660.5	588.9
37.5°	1044.4	1035.6	991.9	918.8	813.9	727.2	711.3	738.4	742.3	732.0	647.0
40°	1159.6	1156.4	1130.2	1078.5	965.7	856.8	799.6	825.8	825.0	809.9	713.7
42.5°	1226.4	1228.0	1226.4	1201.7	1137.4	1012.6	916.4	918.0	920.4	904.5	790.8
45°	1271.7	1271.7	1274.1	1293.9	1269.3	1198.6	1058.7	1022.9	1026.1	1001.5	871.1
47.5°	1270.9	1275.7	1288.4	1334.5	1367.9	1371.8	1236.7	1145.3	1143.7	1106.4	953.8
50°	1185.0	1181.9	1234.3	1337.7	1437.8	1514.9	1405.2	1274.9	1261.4	1215.3	1039.6
52.5°	991.9	1002.2	1089.7	1241.5	1454.5	1611.9	1550.7	1416.3	1398.9	1323.3	1115.1
55°	823.4	834.5	919.6	1068.2	1363.9	1646.0	1648.4	1566.6	1531.6	1417.1	1193.0
57.5°	618.4	639.8	765.4	905.3	1165.2	1561.0	1683.4	1710.4	1672.3	1507.7	1256.6
60°	395.0	407.7	548.4	720.9	944.2	1338.4	1676.2	1793.9	1773.2	1590.4	1309.8
62.5°	258.3	265.5	362.4	542.8	719.3	1008.6	1591.2	1827.2	1827.2	1646.0	1349.6
64°	194.7	196.3	265.5	441.1	600.1	786.1	1491.0	1816.9	1836.0	1679.4	1357.5
65°	154.2	155.0	207.4	366.4	538.9	644.6	1403.6	1794.7	1825.7	1692.1	1362.3
67.5°	108.1	110.5	134.3	211.4	386.3	372.0	1040.4	1689.7	1727.9	1696.1	1355.9
70°	93.8	97.0	112.9	138.3	275.8	216.2	553.2	1440.2	1485.5	1580.1	1262.1
72.5°	71.5	75.5	94.6	116.8	193.9	146.2	213.8	1022.9	1094.4	1221.6	1042.0
75°	51.7	53.3	69.9	95.4	135.9	112.9	92.2	527.7	600.1	720.9	647.8
77.5°	32.6	35.0	47.7	71.5	121.6	85.8	54.8	192.3	242.4	313.9	282.9
80°	19.1	19.9	28.6	49.3	81.9	63.6	35.0	68.4	82.7	116.8	75.5
82.5°	11.1	11.9	18.3	33.4	53.3	49.3	22.3	35.0	38.9	44.5	15.9
85°	4.0	4.0	12.7	19.9	28.6	24.6	12.7	18.3	19.9	24.6	4.8
87.5°	0.8	0.8	6.4	10.3	10.3	4.0	6.4	7.9	9.5	13.5	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°	268.6	268.6	268.6	268.6	268.6	268.6	268.6	268.6	268.6	268.6	268.6
2.5°	271.0	268.6	266.3	263.1	260.7	255.9	253.5	250.4	249.6	248.0	247.2
5°	277.4	273.4	267.8	259.9	255.1	248.0	243.2	238.4	237.6	236.1	235.3
7.5°	286.1	282.2	275.0	266.3	258.3	251.2	245.6	238.4	231.3	225.7	225.7
10°	300.4	295.7	286.1	278.2	268.6	253.5	227.3	203.5	188.4	178.8	175.7
12.5°	317.9	311.6	301.2	291.7	273.4	225.7	185.2	154.2	128.8	116.8	114.5
15°	336.2	330.6	320.3	306.0	251.2	188.4	135.1	87.4	62.8	51.7	53.3
17.5°	356.1	348.1	336.2	307.6	221.0	140.7	72.3	44.5	38.2	36.6	36.6
20°	376.7	366.4	354.5	290.1	182.0	81.1	41.3	33.4	31.0	28.6	29.4
22.5°	399.0	386.3	368.0	263.9	130.3	43.7	31.8	27.0	23.8	23.0	23.0
25°	422.8	404.6	381.5	233.7	75.5	33.4	26.2	21.5	19.1	18.3	17.5
27.5°	448.3	425.2	384.7	193.9	42.9	27.8	20.7	16.7	14.3	13.5	13.5
30°	471.3	445.9	377.5	143.9	32.6	23.0	16.7	12.7	11.1	11.1	11.1
32.5°	502.3	468.9	355.3	89.8	26.2	18.3	12.7	10.3	8.7	8.7	8.7
35°	542.8	503.1	333.0	47.7	21.5	15.1	10.3	7.9	7.2	7.2	7.2
37.5°	598.5	548.4	313.2	30.2	17.5	11.9	7.9	6.4	5.6	5.6	5.6
40°	655.7	602.5	285.3	23.0	14.3	9.5	6.4	4.8	4.0	4.0	4.8
42.5°	727.2	665.2	253.5	19.9	11.9	7.9	4.8	3.2	2.4	3.2	3.2
45°	799.6	731.2	209.0	16.7	10.3	6.4	3.2	1.6	1.6	2.4	2.4
47.5°	874.3	801.2	162.1	14.3	8.7	4.8	2.4	0.8	0.8	1.6	1.6
50°	951.4	870.3	120.8	12.7	7.2	4.0	1.6	0.8	0.0	0.8	0.8
52.5°	1028.5	937.1	93.8	11.1	6.4	3.2	0.8	0.0	0.0	0.0	0.8
55°	1100.0	997.5	74.7	9.5	5.6	2.4	0.8	0.0	0.0	0.0	0.0
57.5°	1160.4	1042.0	59.6	8.7	4.8	1.6	0.8	0.0	0.0	0.0	0.0
60°	1217.6	1077.0	46.1	7.2	4.0	1.6	0.8	0.0	0.0	0.0	0.0
62.5°	1258.2	1090.5	37.4	6.4	3.2	1.6	0.0	0.0	0.0	0.0	0.0
64°	1275.7	1092.1	32.6	5.6	3.2	1.6	0.8	0.0	0.0	0.0	0.0
65°	1286.0	1087.3	30.2	5.6	3.2	1.6	0.8	0.0	0.0	0.0	0.0
67.5°	1288.4	1061.1	23.0	4.8	2.4	0.8	0.8	0.0	0.0	0.0	0.0
70°	1218.4	969.7	16.7	3.2	1.6	0.8	0.0	0.0	0.0	0.0	0.0
72.5°	1018.1	740.8	11.1	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0
75°	635.8	320.3	6.4	2.4	0.8	0.8	0.0	0.0	0.0	0.0	0.0
77.5°	263.1	97.0	4.0	1.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0
80°	60.4	23.0	1.6	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	14.3	4.0	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
85°	3.2	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.8	0.8	0.8	0.8	0.8	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)