

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: P594944

Luminaire Tested: **IST-PA1A-727-U-T4W-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594944  
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-727-U-T4W-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 2700K, 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: 2477 lumens  
Efficiency: N/A  
Efficacy: 86.0 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

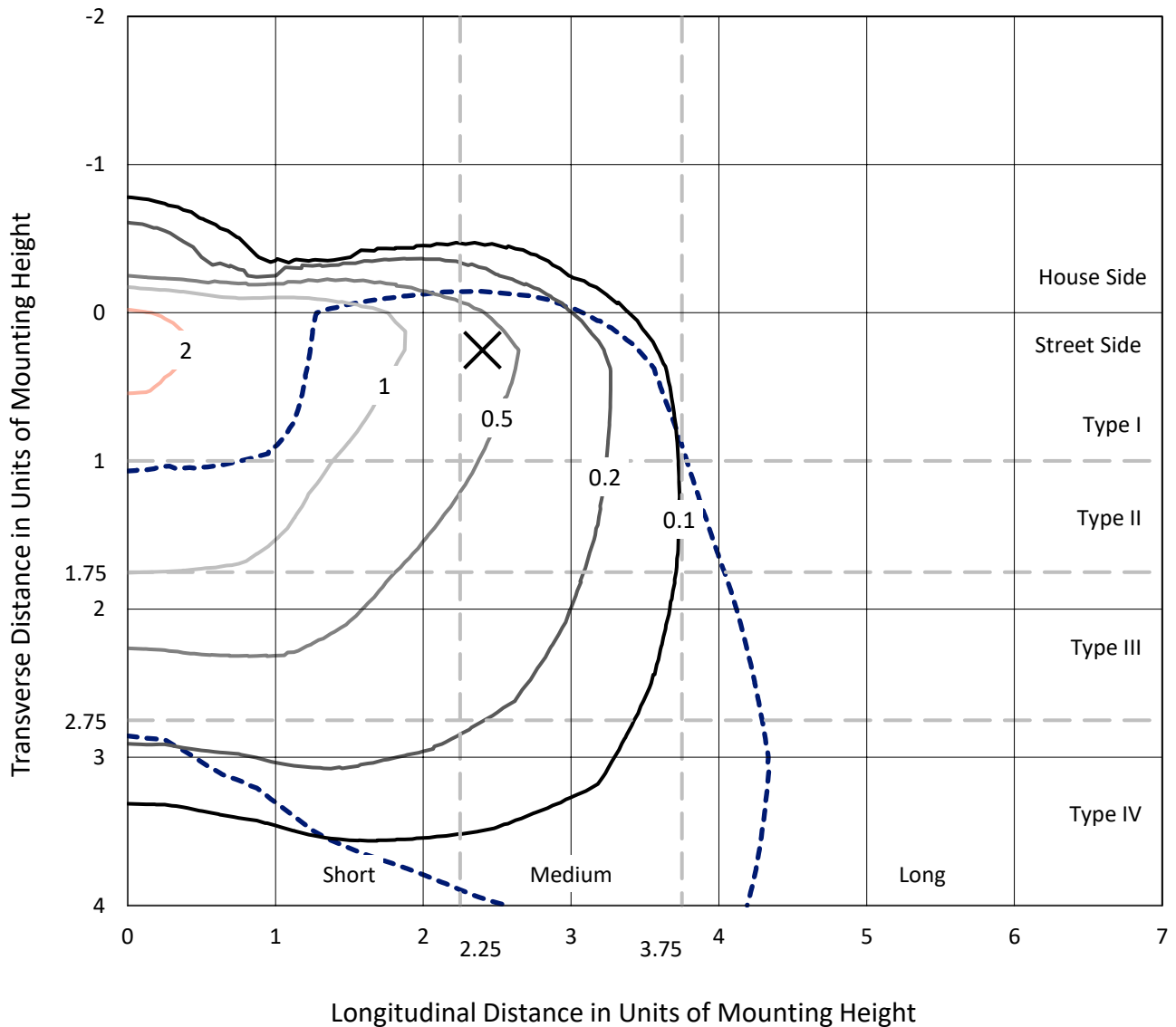
Input Watts (W): 28.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

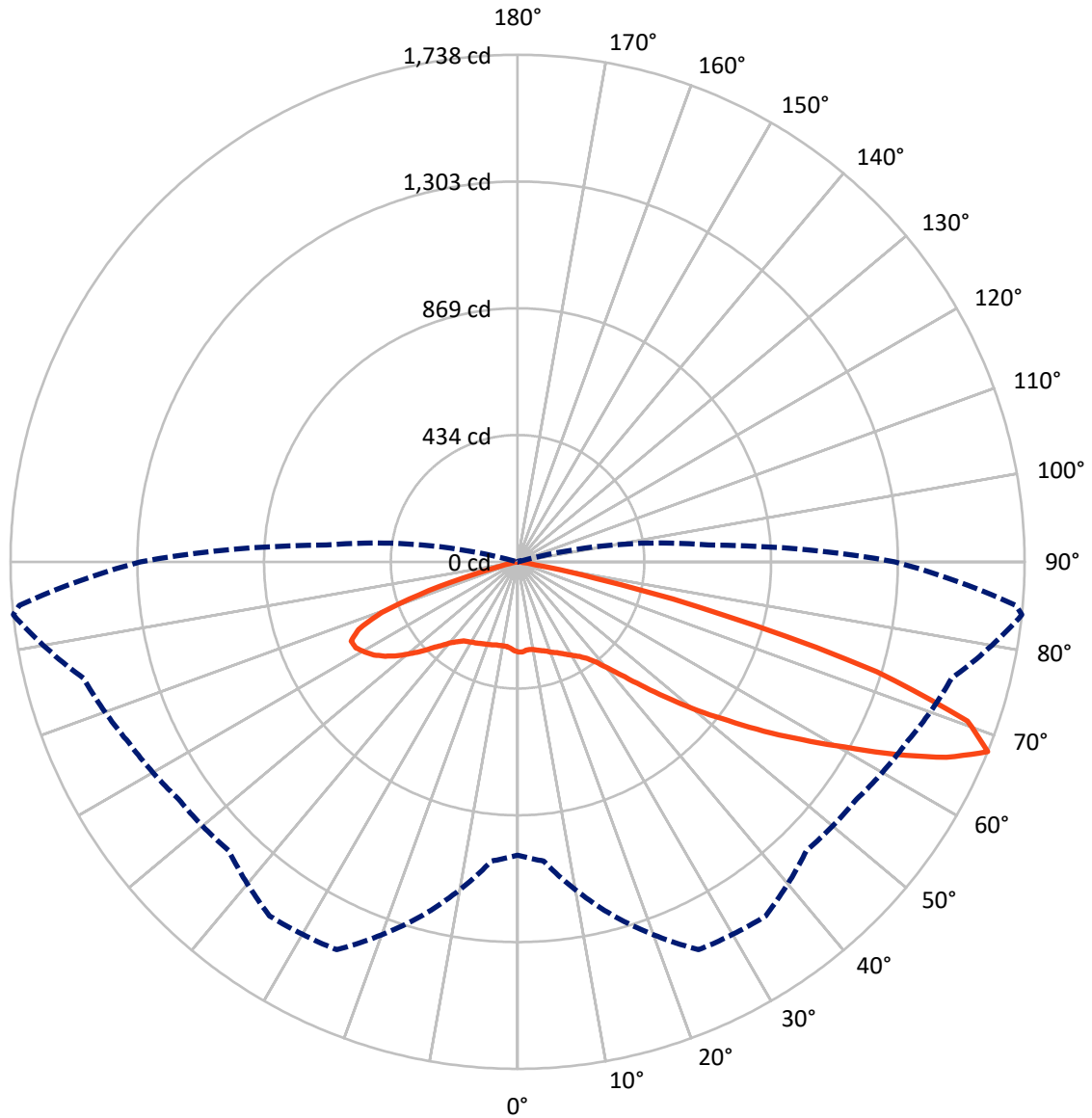
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.5 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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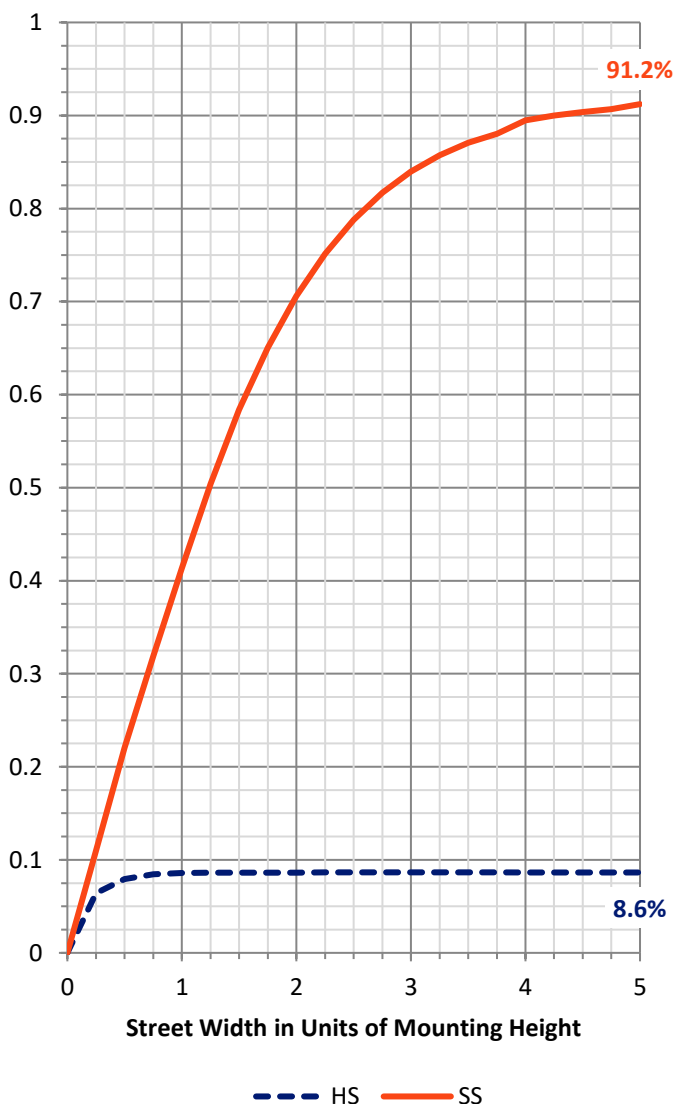
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	215.7	0.0	215.7
	% Fixture	8.7	0.0	8.7
<b>Street Side</b>	Lumens	2261.3	0.0	2261.3
	% Fixture	91.3	0.0	91.3
<b>Total</b>	Lumens	2477.0	0.0	2477.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.7	1.1
10°-20°	72.4	2.9
20°-30°	115.9	4.7
30°-40°	166.8	6.7
40°-50°	286.3	11.6
50°-60°	500.2	20.2
60°-70°	716.4	28.9
70°-80°	538.4	21.7
80°-90°	52.9	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°	2477.0	100.0
0°-180°	2477.0	100.0

**Coefficient of Utilization**

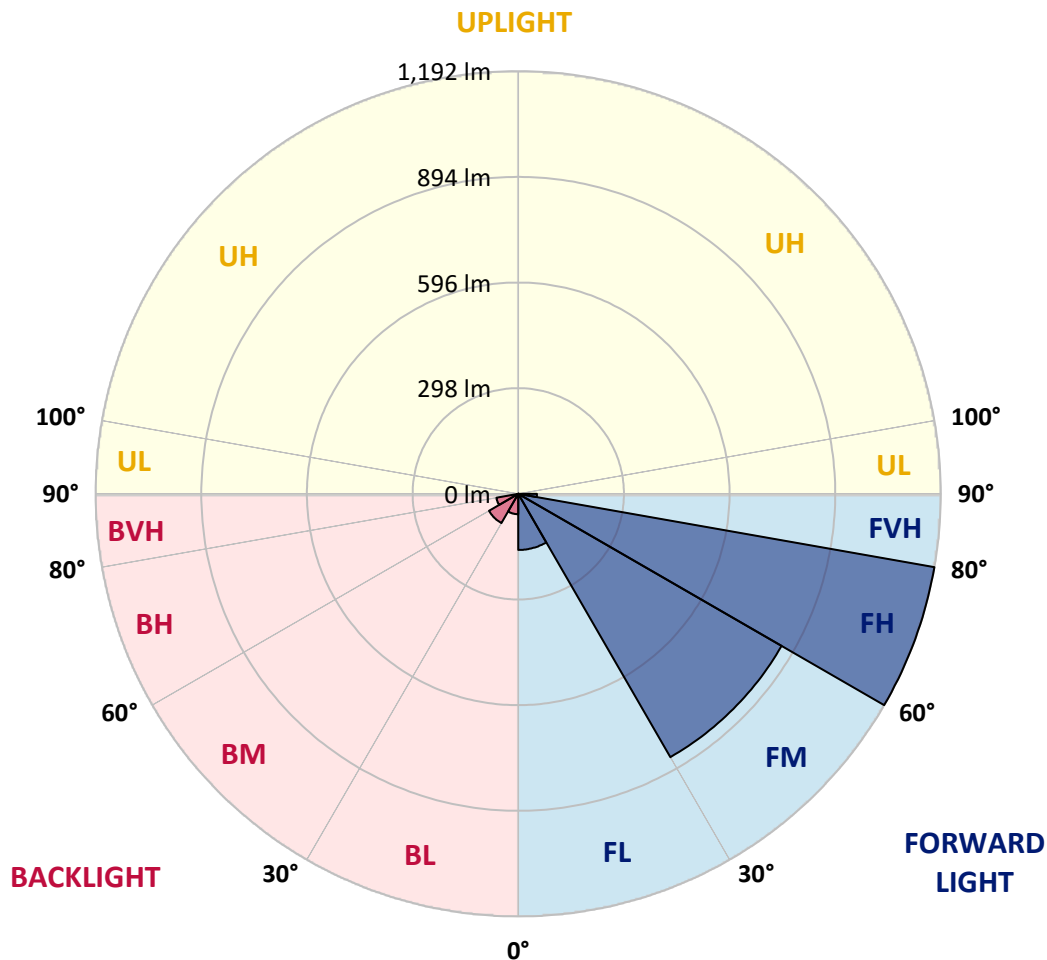


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	158.4	6.4			
FM (30°-60°)	858.0	34.6			
FH (60°-80°)	1192.3	48.1			G1/1800
FVH (80°-90°)	52.7	2.1			G1/100
BL (0°-30°)	57.6	2.3	B0/110		
BM (30°-60°)	95.4	3.9	B0/220		
BH (60°-80°)	62.5	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°	308.6	308.6	308.6	308.6	308.6	308.6	308.6	308.6	308.6	308.6	308.6
2.5°	326.2	327.8	328.7	324.5	324.5	321.1	316.1	314.5	311.9	309.4	308.6
5°	342.9	345.4	344.6	339.5	337.0	330.3	323.7	317.0	310.3	304.4	304.4
7.5°	362.1	363.0	360.5	352.1	347.1	337.9	327.8	320.3	311.9	303.6	301.9
10°	378.9	378.0	374.7	366.3	357.1	345.4	334.5	326.2	316.1	306.1	305.3
12.5°	390.6	391.4	387.2	375.5	366.3	352.9	342.1	333.7	322.0	311.1	308.6
15°	400.6	403.1	398.1	386.4	373.0	361.3	352.9	342.1	328.7	316.1	314.5
17.5°	409.8	410.6	406.5	393.1	380.5	370.5	361.3	351.3	337.9	322.0	320.3
20°	414.8	417.3	414.8	398.1	386.4	378.9	371.3	361.3	346.2	331.2	329.5
22.5°	418.2	420.7	419.8	401.4	391.4	385.5	378.9	369.7	355.4	337.9	336.2
25°	419.8	421.5	423.2	404.8	396.4	393.9	388.1	379.7	366.3	347.9	346.2
27.5°	422.3	424.0	425.7	409.0	405.6	403.1	401.4	394.7	378.9	359.6	357.1
30°	426.5	429.0	430.7	416.5	416.5	419.0	419.0	409.8	392.2	372.2	370.5
32.5°	431.5	432.4	435.7	424.0	428.2	434.1	432.4	423.2	404.8	386.4	383.9
35°	444.9	444.9	450.8	435.7	440.7	445.8	447.4	440.7	424.0	405.6	404.8
37.5°	477.5	477.5	482.6	458.3	457.5	462.5	468.3	468.3	451.6	434.9	433.2
40°	551.1	551.1	551.1	495.1	485.9	491.8	501.0	506.0	491.8	480.1	480.1
42.5°	674.1	674.9	662.4	562.8	523.5	533.6	543.6	554.5	547.0	538.6	536.9
45°	801.2	797.0	795.3	662.4	590.4	585.4	598.0	616.4	618.9	613.9	617.2
47.5°	888.2	892.4	894.9	786.1	684.1	649.8	661.5	687.5	702.5	701.7	706.7
50°	972.6	975.2	977.7	922.5	807.9	730.9	738.5	773.6	794.5	801.2	804.5
52.5°	1046.2	1039.6	1050.4	1042.9	939.2	823.8	823.8	863.9	901.6	904.1	903.2
55°	1068.0	1072.2	1104.8	1127.4	1073.8	937.5	920.8	963.4	1003.6	1024.5	1024.5
57.5°	1116.5	1120.7	1160.0	1211.0	1171.7	1049.6	1024.5	1066.3	1109.8	1149.9	1155.8
60°	1180.1	1180.9	1222.7	1300.5	1246.1	1150.8	1129.9	1177.5	1221.0	1289.6	1308.9
62.5°	1214.3	1217.7	1275.4	1377.4	1339.8	1239.4	1234.4	1277.9	1333.9	1454.4	1471.9
65°	1161.7	1183.4	1308.9	1423.4	1415.9	1322.2	1339.8	1374.9	1439.3	1615.8	1632.5
67.5°	1005.3	1029.5	1253.7	1466.9	1482.0	1400.0	1418.4	1469.4	1540.5	1737.9	1714.5
70°	925.8	945.9	1119.8	1491.2	1537.2	1487.0	1495.4	1543.0	1563.9	1635.9	1610.8
72.5°	701.7	722.6	947.6	1408.4	1584.8	1578.1	1557.2	1517.9	1394.2	1287.1	1226.1
75°	310.3	334.5	630.6	1100.6	1466.9	1630.0	1519.6	1299.7	1001.1	730.9	677.4
77.5°	137.2	151.4	244.2	611.4	1102.3	1410.9	1201.8	866.4	502.6	271.8	252.6
80°	44.3	46.0	76.9	214.1	563.7	934.2	736.0	416.5	154.7	63.6	59.4
82.5°	17.6	19.2	36.8	90.3	233.3	371.3	361.3	150.5	45.2	16.7	16.7
85°	5.0	5.9	18.4	47.7	82.8	104.5	128.0	50.2	24.3	5.0	5.0
87.5°	1.7	1.7	6.7	15.1	15.9	10.9	24.3	19.2	15.1	1.7	1.7
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°	308.6	308.6	308.6	308.6	308.6	308.6	308.6	308.6	308.6	308.6	308.6
2.5°	306.9	305.3	301.1	297.7	296.1	293.6	290.2	288.5	288.5	287.7	285.2
5°	301.1	298.6	291.0	286.0	281.8	272.6	266.0	257.6	249.2	246.7	249.2
7.5°	298.6	293.6	283.5	273.5	255.9	231.7	215.8	198.2	192.4	184.8	185.7
10°	299.4	293.6	279.3	256.8	222.5	186.5	161.4	138.0	126.3	120.4	121.3
12.5°	301.9	295.2	275.2	234.2	184.8	141.3	102.9	84.5	81.1	81.1	81.1
15°	306.9	296.9	268.5	207.4	144.7	93.7	72.8	71.1	73.6	76.1	76.9
17.5°	311.9	301.9	258.4	179.8	105.4	70.3	67.7	67.7	70.3	72.8	73.6
20°	317.8	306.9	244.2	150.5	75.3	66.1	65.2	64.4	66.1	68.6	69.4
22.5°	327.0	311.9	227.5	116.2	65.2	63.6	61.9	61.1	61.9	64.4	65.2
25°	335.4	318.6	209.9	86.1	61.1	59.4	58.5	57.7	57.7	59.4	60.2
27.5°	345.4	326.2	190.7	64.4	56.0	55.2	54.4	53.5	52.7	54.4	55.2
30°	357.9	332.9	169.8	54.4	51.0	50.2	49.3	48.5	47.7	48.5	49.3
32.5°	373.8	342.1	145.5	49.3	46.8	44.3	43.5	43.5	42.7	42.7	43.5
35°	394.7	352.1	119.6	46.0	42.7	40.1	37.6	36.8	36.8	36.8	37.6
37.5°	425.7	370.5	94.5	42.7	39.3	35.1	32.6	30.1	30.1	30.1	30.1
40°	468.3	390.6	73.6	40.1	36.8	30.9	27.6	24.3	22.6	21.7	22.6
42.5°	534.4	420.7	56.9	36.8	35.1	27.6	22.6	18.4	15.1	14.2	15.1
45°	607.2	453.3	45.2	34.3	31.8	23.4	17.6	12.5	9.2	8.4	9.2
47.5°	699.2	494.3	38.5	30.9	27.6	19.2	12.5	6.7	4.2	5.0	5.0
50°	787.8	534.4	35.1	28.4	24.3	15.9	7.5	3.3	1.7	2.5	2.5
52.5°	885.7	577.1	32.6	25.1	20.9	11.7	4.2	0.8	0.0	0.8	0.8
55°	984.4	615.5	30.1	22.6	16.7	8.4	1.7	0.0	0.0	0.0	0.8
57.5°	1091.4	648.2	27.6	19.2	12.5	5.0	0.8	0.0	0.0	0.0	0.0
60°	1180.9	673.2	25.1	16.7	8.4	2.5	0.0	0.0	0.0	0.0	0.0
62.5°	1262.9	695.8	19.2	12.5	5.0	1.7	0.0	0.0	0.0	0.0	0.0
65°	1317.2	700.8	13.4	8.4	3.3	0.8	0.0	0.0	0.0	0.0	0.0
67.5°	1293.0	657.4	8.4	5.9	1.7	0.8	0.0	0.0	0.0	0.0	0.0
70°	1136.6	552.0	5.9	3.3	0.8	0.8	0.0	0.0	0.0	0.0	0.0
72.5°	795.3	356.3	5.0	2.5	0.8	0.8	0.0	0.0	0.0	0.0	0.0
75°	419.8	128.8	3.3	1.7	0.8	0.8	0.0	0.0	0.0	0.0	0.0
77.5°	148.9	28.4	1.7	0.8	0.0	0.8	0.0	0.0	0.0	0.0	0.0
80°	32.6	5.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.5	0.0	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)