

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: P594953

Luminaire Tested: **IST-PA1A-730-U-T4W-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594953  
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-730-U-T4W-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 3000K, 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: 2698 lumens  
Efficiency: N/A  
Efficacy: 93.7 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

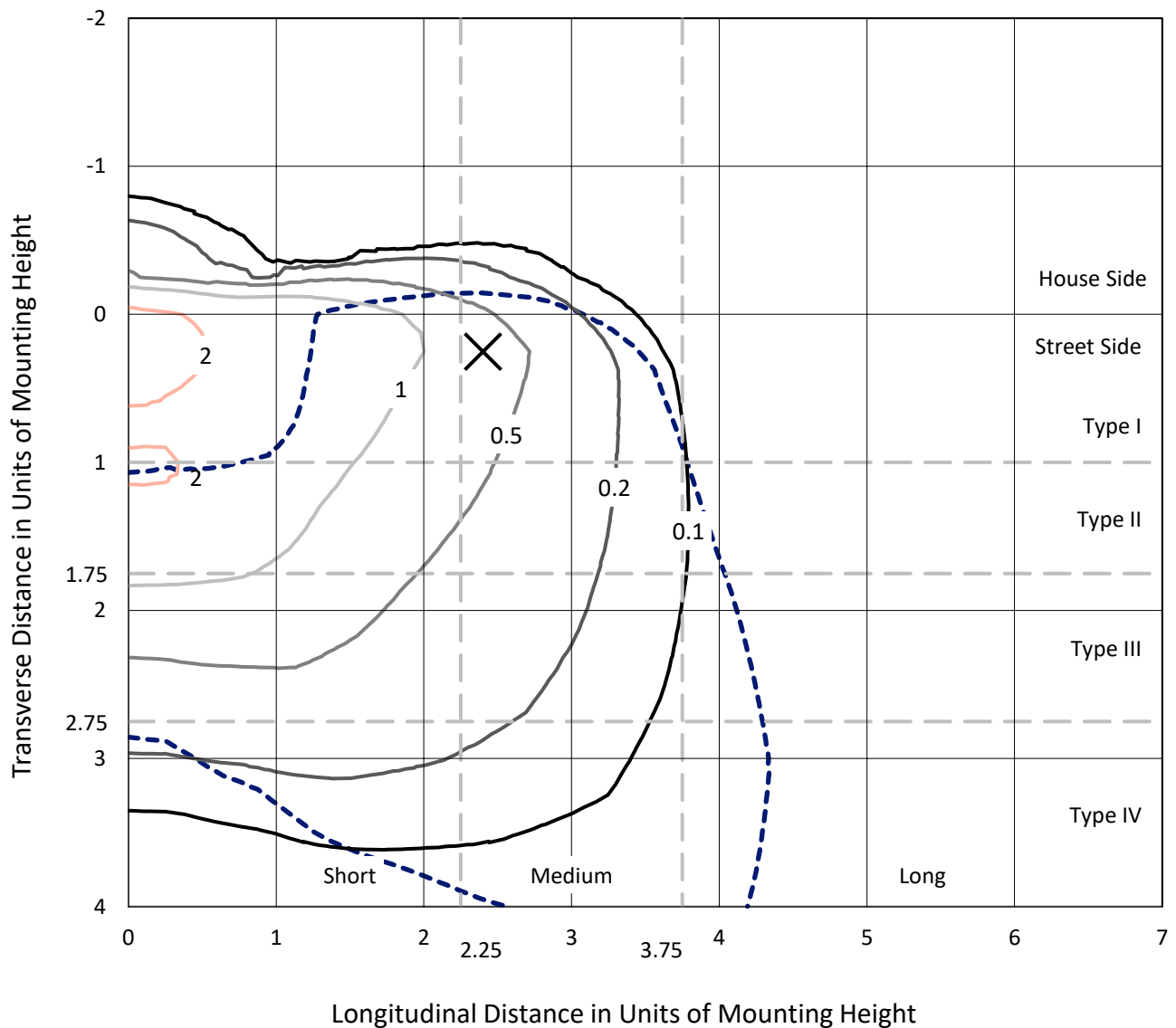
Input Watts (W): 28.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

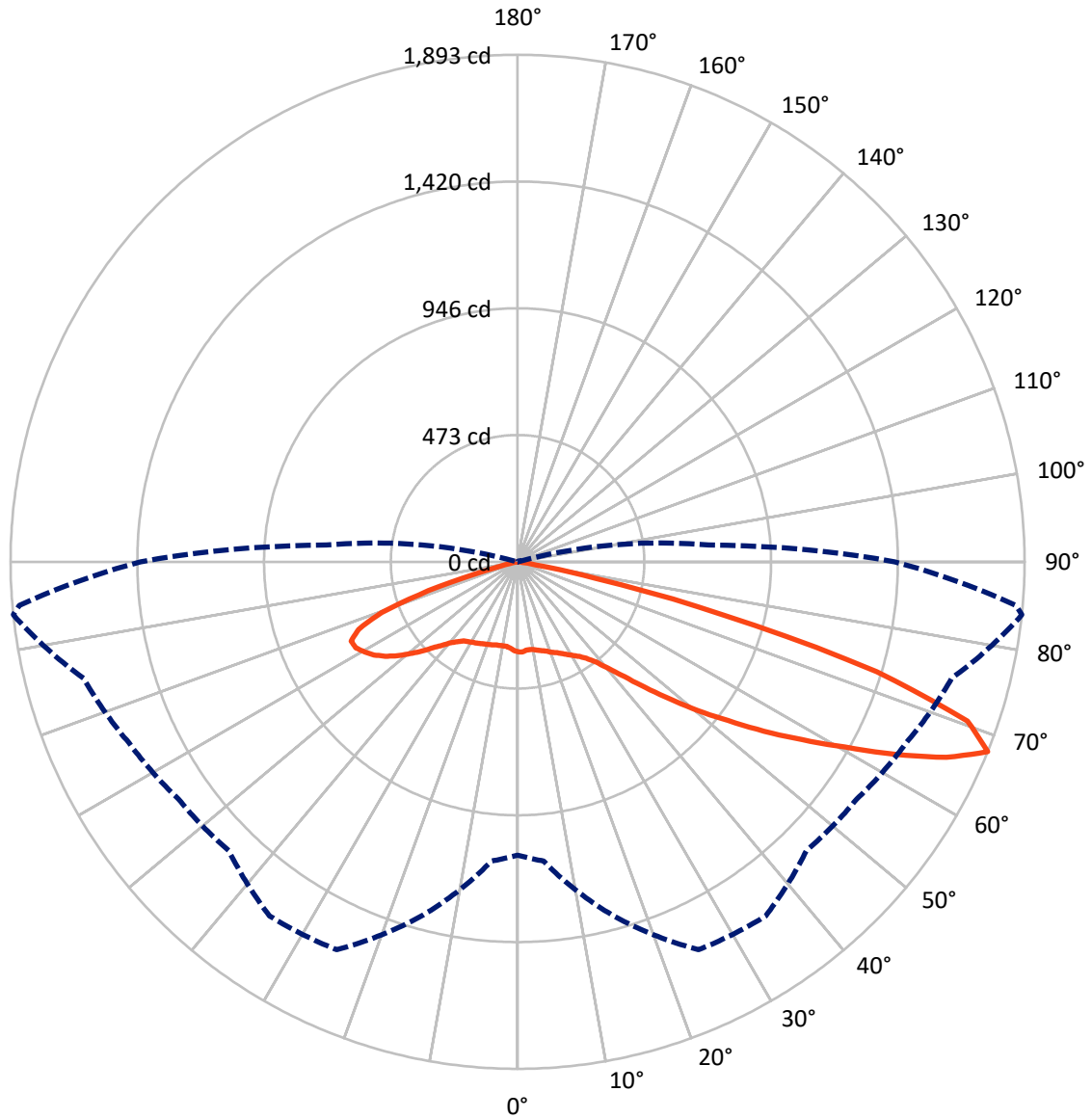
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.7 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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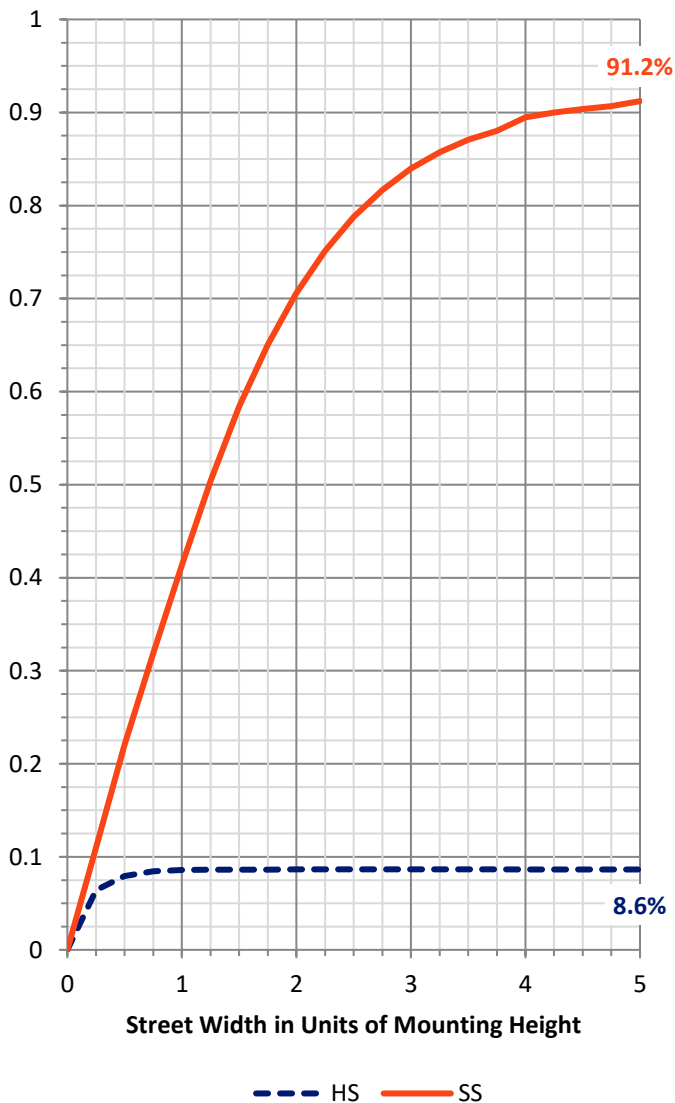
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	234.9	0.0	234.9
	% Fixture	8.7	0.0	8.7
<b>Street Side</b>	Lumens	2463.1	0.0	2463.1
	% Fixture	91.3	0.0	91.3
<b>Total</b>	Lumens	2698.0	0.0	2698.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.1	1.1
10°-20°	78.8	2.9
20°-30°	126.3	4.7
30°-40°	181.7	6.7
40°-50°	311.9	11.6
50°-60°	544.9	20.2
60°-70°	780.3	28.9
70°-80°	586.5	21.7
80°-90°	57.6	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°	2698.0	100.0
0°-180°	2698.0	100.0

**Coefficient of Utilization**

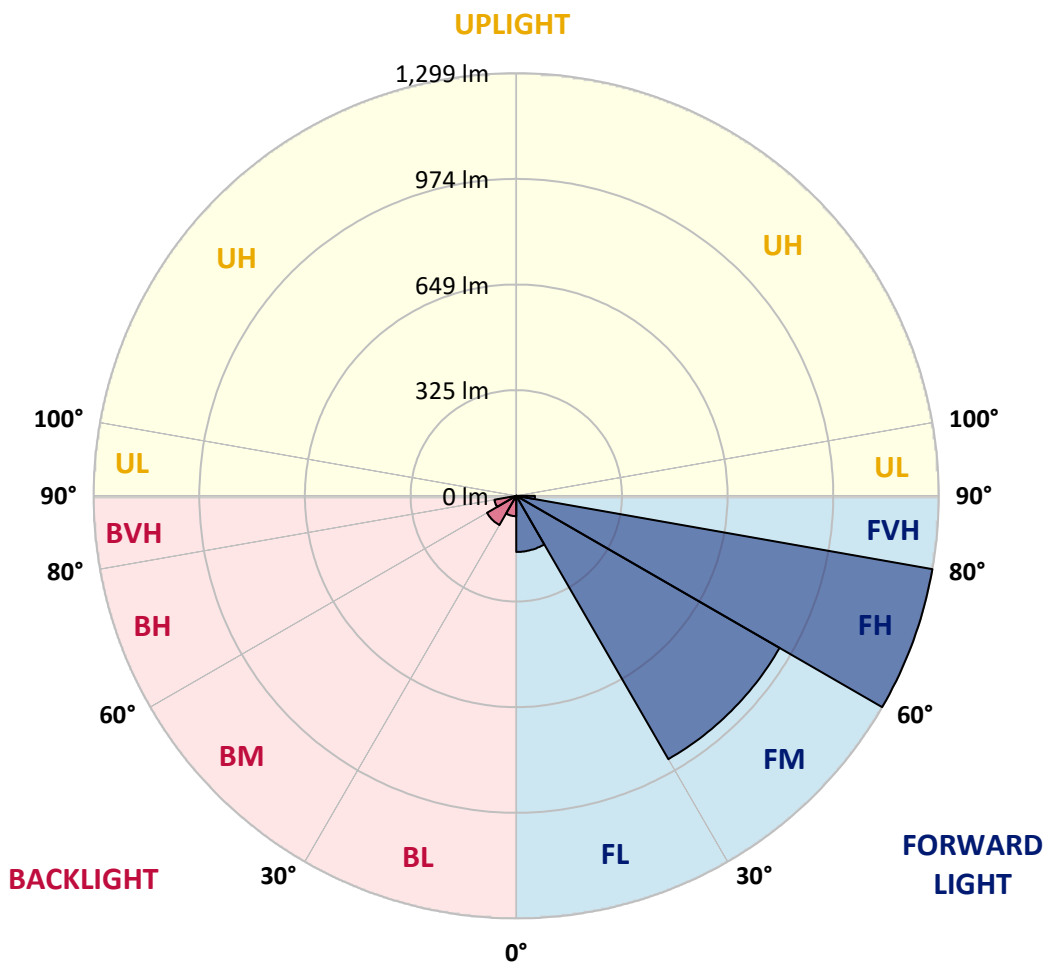


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	172.5	6.4			
FM (30°-60°)	934.6	34.6			
FH (60°-80°)	1298.7	48.1			G1/1800
FVH (80°-90°)	57.4	2.1			G1/100
BL (0°-30°)	62.7	2.3	B0/110		
BM (30°-60°)	103.9	3.9	B0/220		
BH (60°-80°)	68.1	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°	336.1	336.1	336.1	336.1	336.1	336.1	336.1	336.1	336.1	336.1	336.1
2.5°	355.3	357.1	358.0	353.4	353.4	349.8	344.3	342.5	339.8	337.0	336.1
5°	373.5	376.2	375.3	369.8	367.1	359.8	352.5	345.2	338.0	331.6	331.6
7.5°	394.4	395.3	392.6	383.5	378.0	368.0	357.1	348.9	339.8	330.7	328.9
10°	412.7	411.7	408.1	399.0	389.0	376.2	364.4	355.3	344.3	333.4	332.5
12.5°	425.4	426.3	421.8	409.0	399.0	384.4	372.6	363.5	350.7	338.9	336.1
15°	436.3	439.1	433.6	420.9	406.3	393.5	384.4	372.6	358.0	344.3	342.5
17.5°	446.4	447.3	442.7	428.1	414.5	403.5	393.5	382.6	368.0	350.7	348.9
20°	451.8	454.6	451.8	433.6	420.9	412.7	404.5	393.5	377.1	360.7	358.9
22.5°	455.5	458.2	457.3	437.3	426.3	419.9	412.7	402.6	387.2	368.0	366.2
25°	457.3	459.1	460.9	440.9	431.8	429.1	422.7	413.6	399.0	379.0	377.1
27.5°	460.0	461.8	463.7	445.5	441.8	439.1	437.3	430.0	412.7	391.7	389.0
30°	464.6	467.3	469.1	453.7	453.7	456.4	456.4	446.4	427.2	405.4	403.5
32.5°	470.0	471.0	474.6	461.8	466.4	472.8	471.0	460.9	440.9	420.9	418.1
35°	484.6	484.6	491.0	474.6	480.1	485.5	487.4	480.1	461.8	441.8	440.9
37.5°	520.1	520.1	525.6	499.2	498.3	503.8	510.1	510.1	491.9	473.7	471.9
40°	600.3	600.3	600.3	539.3	529.3	535.6	545.7	551.1	535.6	522.9	522.9
42.5°	734.2	735.1	721.5	613.1	570.3	581.2	592.1	604.0	595.8	586.6	584.8
45°	872.7	868.1	866.3	721.5	643.1	637.7	651.3	671.4	674.1	668.6	672.3
47.5°	967.4	972.0	974.7	856.3	745.2	707.8	720.6	748.8	765.2	764.3	769.7
50°	1059.4	1062.2	1064.9	1004.8	880.0	796.2	804.4	842.6	865.4	872.7	876.3
52.5°	1139.6	1132.3	1144.1	1135.9	1023.0	897.3	897.3	941.0	982.0	984.7	983.8
55°	1163.3	1167.8	1203.4	1228.0	1169.7	1021.2	1002.9	1049.4	1093.1	1115.9	1115.9
57.5°	1216.1	1220.7	1263.5	1319.0	1276.2	1143.2	1115.9	1161.5	1208.8	1252.5	1258.9
60°	1285.3	1286.3	1331.8	1416.5	1357.3	1253.5	1230.7	1282.6	1330.0	1404.7	1425.6
62.5°	1322.7	1326.3	1389.2	1500.3	1459.3	1350.0	1344.6	1391.9	1453.0	1584.1	1603.3
65°	1265.3	1289.0	1425.6	1550.4	1542.2	1440.2	1459.3	1497.6	1567.7	1759.9	1778.2
67.5°	1095.0	1121.4	1365.5	1597.8	1614.2	1524.9	1545.0	1600.5	1678.0	1892.9	1867.4
70°	1008.4	1030.3	1219.8	1624.2	1674.3	1619.7	1628.8	1680.7	1703.5	1781.8	1754.5
72.5°	764.3	787.1	1032.1	1534.0	1726.2	1719.0	1696.2	1653.4	1518.5	1401.9	1335.4
75°	338.0	364.4	686.9	1198.8	1597.8	1775.4	1655.2	1415.6	1090.4	796.2	737.9
77.5°	149.4	164.9	266.0	665.9	1200.6	1536.8	1309.0	943.7	547.5	296.1	275.1
80°	48.3	50.1	83.8	233.2	614.0	1017.5	801.6	453.7	168.5	69.2	64.7
82.5°	19.1	21.0	40.1	98.4	254.2	404.5	393.5	164.0	49.2	18.2	18.2
85°	5.5	6.4	20.0	51.9	90.2	113.9	139.4	54.7	26.4	5.5	5.5
87.5°	1.8	1.8	7.3	16.4	17.3	11.8	26.4	21.0	16.4	1.8	1.8
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°	336.1	336.1	336.1	336.1	336.1	336.1	336.1	336.1	336.1	336.1	336.1
2.5°	334.3	332.5	327.9	324.3	322.5	319.7	316.1	314.3	314.3	313.4	310.6
5°	327.9	325.2	317.0	311.5	307.0	297.0	289.7	280.6	271.5	268.7	271.5
7.5°	325.2	319.7	308.8	297.9	278.7	252.3	235.0	215.9	209.5	201.3	202.2
10°	326.1	319.7	304.3	279.7	242.3	203.1	175.8	150.3	137.6	131.2	132.1
12.5°	328.9	321.6	299.7	255.1	201.3	153.9	112.0	92.0	88.4	88.4	88.4
15°	334.3	323.4	292.4	225.9	157.6	102.0	79.3	77.4	80.2	82.9	83.8
17.5°	339.8	328.9	281.5	195.9	114.8	76.5	73.8	73.8	76.5	79.3	80.2
20°	346.2	334.3	266.0	164.0	82.0	72.0	71.1	70.1	72.0	74.7	75.6
22.5°	356.2	339.8	247.8	126.6	71.1	69.2	67.4	66.5	67.4	70.1	71.1
25°	365.3	347.1	228.6	93.8	66.5	64.7	63.8	62.9	62.9	64.7	65.6
27.5°	376.2	355.3	207.7	70.1	61.0	60.1	59.2	58.3	57.4	59.2	60.1
30°	389.9	362.6	184.9	59.2	55.6	54.7	53.7	52.8	51.9	52.8	53.7
32.5°	407.2	372.6	158.5	53.7	51.0	48.3	47.4	47.4	46.5	46.5	47.4
35°	430.0	383.5	130.3	50.1	46.5	43.7	41.0	40.1	40.1	40.1	41.0
37.5°	463.7	403.5	102.9	46.5	42.8	38.3	35.5	32.8	32.8	32.8	32.8
40°	510.1	425.4	80.2	43.7	40.1	33.7	30.1	26.4	24.6	23.7	24.6
42.5°	582.1	458.2	61.9	40.1	38.3	30.1	24.6	20.0	16.4	15.5	16.4
45°	661.3	493.7	49.2	37.3	34.6	25.5	19.1	13.7	10.0	9.1	10.0
47.5°	761.5	538.4	41.9	33.7	30.1	21.0	13.7	7.3	4.6	5.5	5.5
50°	858.1	582.1	38.3	31.0	26.4	17.3	8.2	3.6	1.8	2.7	2.7
52.5°	964.7	628.6	35.5	27.3	22.8	12.8	4.6	0.9	0.0	0.9	0.9
55°	1072.2	670.5	32.8	24.6	18.2	9.1	1.8	0.0	0.0	0.0	0.9
57.5°	1188.8	706.0	30.1	21.0	13.7	5.5	0.9	0.0	0.0	0.0	0.0
60°	1286.3	733.3	27.3	18.2	9.1	2.7	0.0	0.0	0.0	0.0	0.0
62.5°	1375.5	757.9	21.0	13.7	5.5	1.8	0.0	0.0	0.0	0.0	0.0
65°	1434.7	763.4	14.6	9.1	3.6	0.9	0.0	0.0	0.0	0.0	0.0
67.5°	1408.3	716.0	9.1	6.4	1.8	0.9	0.0	0.0	0.0	0.0	0.0
70°	1238.0	601.2	6.4	3.6	0.9	0.9	0.0	0.0	0.0	0.0	0.0
72.5°	866.3	388.1	5.5	2.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0
75°	457.3	140.3	3.6	1.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0
77.5°	162.1	31.0	1.8	0.9	0.0	0.9	0.0	0.0	0.0	0.0	0.0
80°	35.5	6.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	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)