

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: P595001

Luminaire Tested: **IST-PA1A-830-U-T2R-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595001  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-7)  
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-T2R-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 80 CRI, 3000K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2647 lumens  
Efficiency: N/A  
Efficacy: 91.9 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - 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

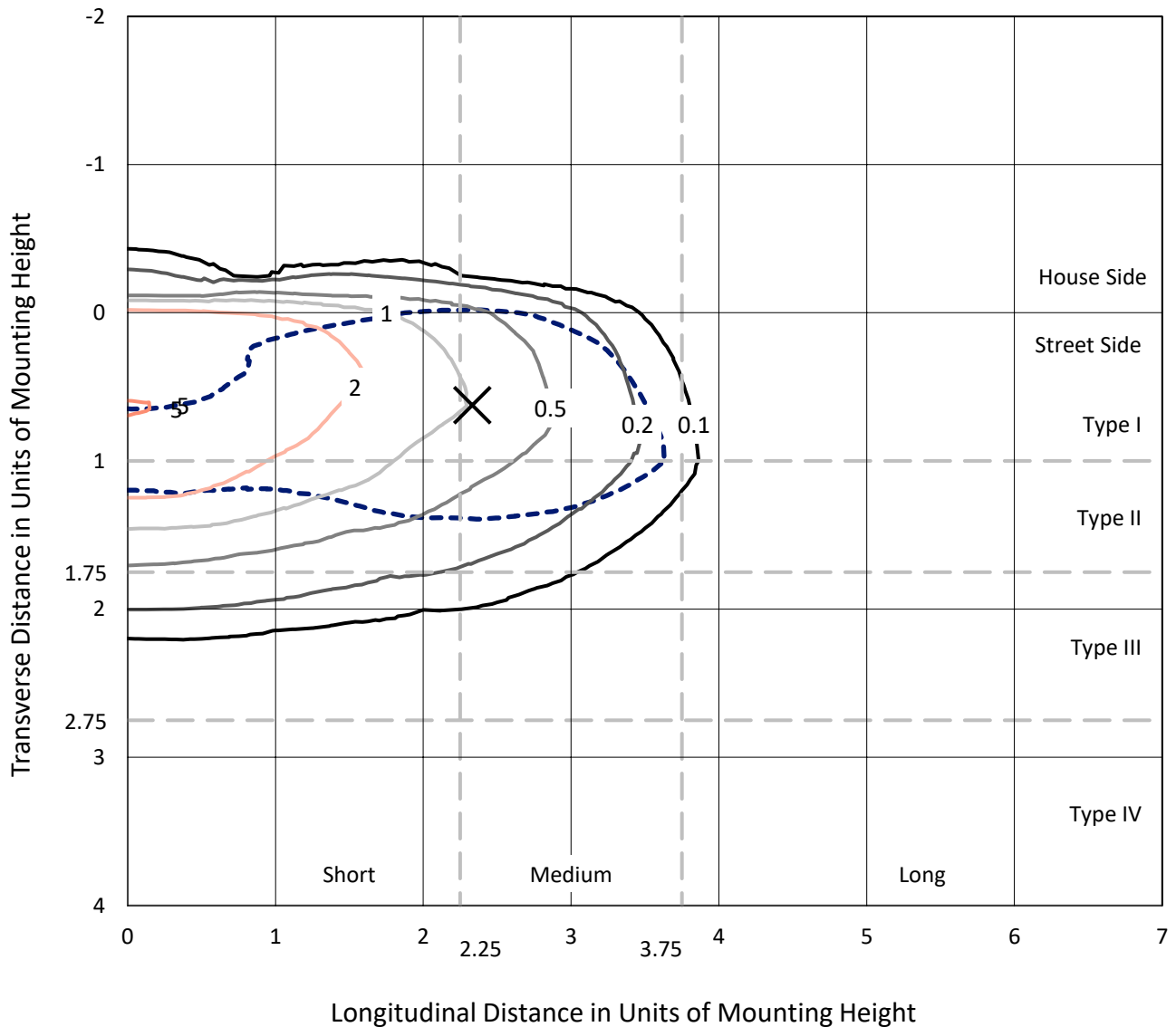




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### Iso-Footcandle Lines of Horizontal Illumination

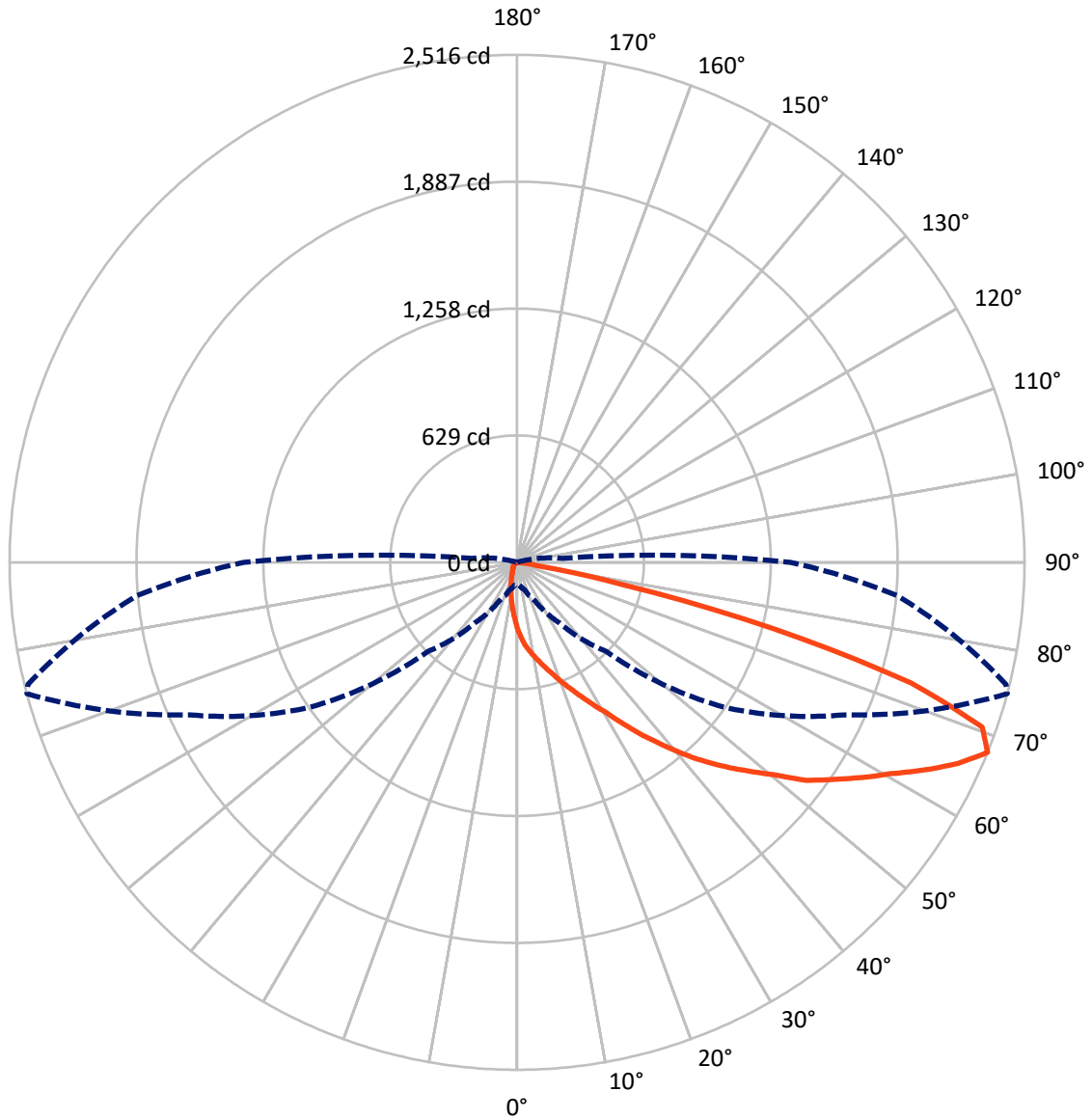
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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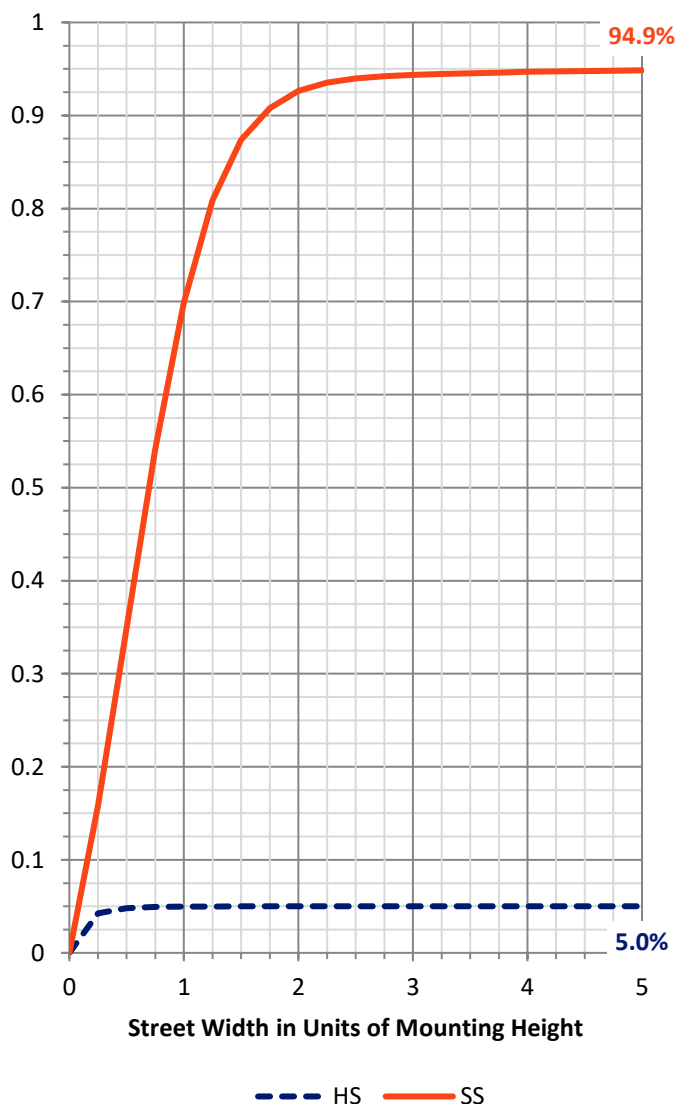
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	133.5	0.0	133.5
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	2513.6	0.0	2513.6
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	2647.0	0.0	2647.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.7	1.1
10°-20°	95.8	3.6
20°-30°	192.5	7.3
30°-40°	364.1	13.8
40°-50°	544.6	20.6
50°-60°	628.8	23.8
60°-70°	557.4	21.1
70°-80°	225.3	8.5
80°-90°	9.0	0.3
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°	2647.0	100.0
0°-180°	2647.0	100.0

**Coefficient of Utilization**



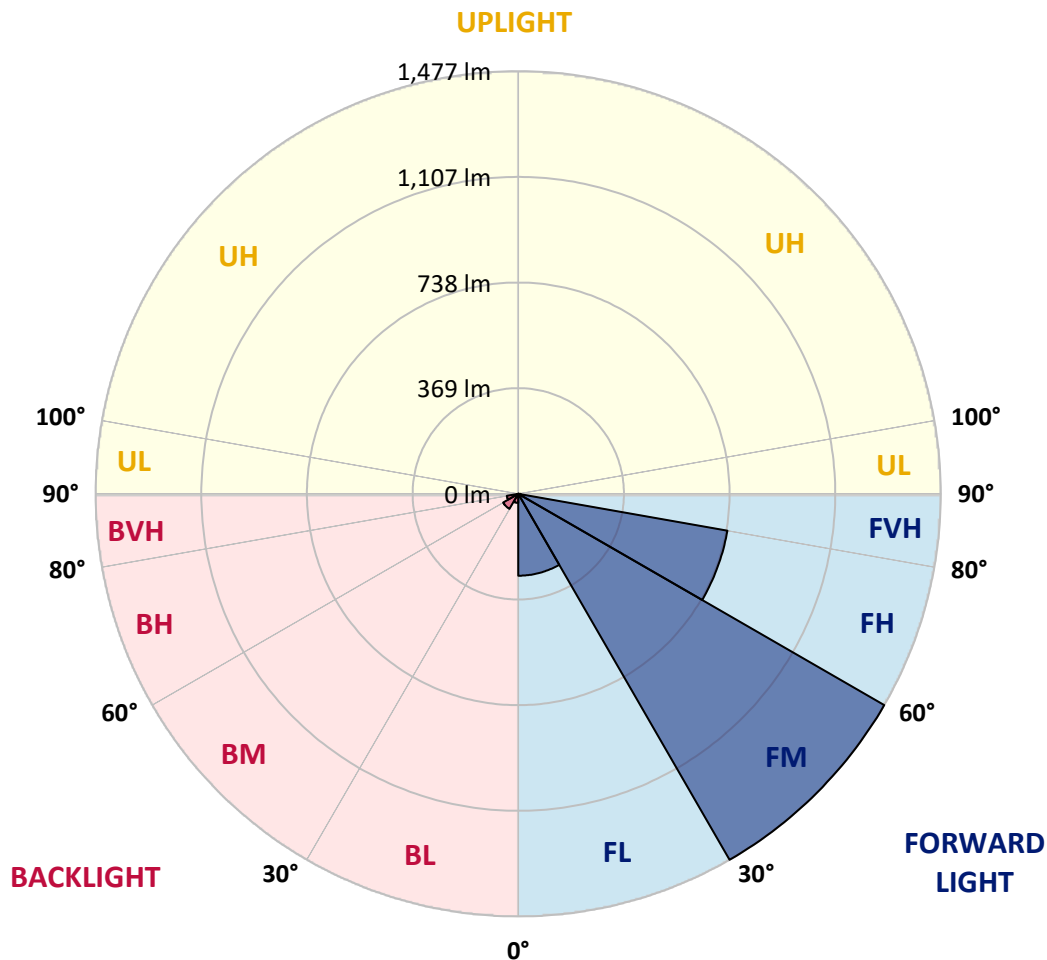
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	286.2	10.8			
FM (30°-60°)	1476.6	55.8			
FH (60°-80°)	742.2	28.0			G1/1800
FVH (80°-90°)	8.6	0.3			G0/10
BL (0°-30°)	31.7	1.2	B0/110		
BM (30°-60°)	60.9	2.3	B0/220		
BH (60°-80°)	40.5	1.5	B0/110		G0/110
BVH (80°-90°)	0.4	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	329.0	329.0	329.0	329.0	329.0	329.0	329.0	329.0	329.0	329.0	329.0
2.5°	457.7	459.3	456.1	448.9	442.6	427.5	415.6	394.1	371.1	371.1	343.3
5°	511.7	510.1	508.5	503.0	498.2	485.5	469.6	446.6	410.8	407.6	361.5
7.5°	537.9	536.3	533.2	530.8	530.8	522.0	506.9	483.1	443.4	440.2	378.2
10°	568.9	565.7	565.7	559.4	557.8	547.5	539.5	518.9	475.2	471.2	397.3
12.5°	605.5	602.3	603.1	597.5	595.1	584.0	572.9	553.0	509.3	505.4	419.5
15°	626.1	624.5	629.3	630.1	631.7	622.2	611.8	591.2	547.5	541.9	445.8
17.5°	638.1	638.1	643.6	653.9	665.9	660.3	652.4	635.7	586.4	583.2	473.6
20°	661.1	658.7	668.2	677.8	692.9	697.6	695.3	682.6	633.3	623.8	503.8
22.5°	699.2	696.1	704.8	716.7	735.0	736.6	738.2	731.8	681.0	671.4	535.6
25°	789.0	781.1	773.1	771.5	778.7	785.1	780.3	785.1	735.0	726.3	569.7
27.5°	963.8	950.3	912.2	870.1	840.7	846.2	831.1	839.9	797.0	785.8	601.5
30°	1131.5	1118.0	1087.0	1012.3	944.8	914.6	892.3	889.1	860.5	847.8	638.1
32.5°	1248.3	1239.6	1218.9	1168.8	1084.6	1007.5	964.6	949.5	945.6	925.7	684.9
35°	1327.8	1319.8	1305.5	1265.0	1203.0	1117.2	1043.3	1009.9	1040.1	1016.3	738.2
37.5°	1375.4	1369.9	1354.0	1326.2	1292.8	1236.4	1141.0	1087.8	1135.5	1113.2	806.5
40°	1410.4	1396.1	1385.0	1363.5	1352.4	1334.1	1252.3	1168.8	1238.8	1215.7	874.0
42.5°	1413.6	1407.2	1398.5	1385.8	1387.4	1399.3	1370.7	1262.6	1342.9	1321.4	945.6
45°	1412.8	1406.4	1400.1	1387.4	1395.3	1439.8	1466.0	1361.1	1444.6	1422.3	1021.0
47.5°	1389.7	1385.0	1386.6	1386.6	1396.9	1457.3	1539.9	1461.2	1546.3	1524.8	1112.4
50°	1308.7	1313.5	1345.2	1361.9	1380.2	1458.1	1591.6	1566.1	1655.9	1640.8	1200.6
52.5°	1052.0	1079.1	1207.8	1296.0	1349.2	1442.2	1624.9	1676.6	1795.0	1771.9	1300.7
55°	804.1	805.7	929.7	1134.7	1288.0	1413.6	1644.0	1751.3	1900.7	1887.9	1388.9
57.5°	652.4	651.6	712.7	897.1	1129.1	1368.3	1648.8	1806.1	2012.7	1988.9	1490.6
60°	533.2	530.0	566.5	680.2	922.5	1261.8	1631.3	1850.6	2127.9	2119.2	1597.1
62.5°	385.4	388.6	437.0	525.2	711.2	1065.5	1593.9	1864.1	2267.0	2258.2	1716.3
65°	221.7	231.2	284.5	378.2	545.1	833.5	1487.5	1853.8	2402.8	2402.0	1826.8
67.5°	111.2	112.0	140.6	211.4	366.3	623.8	1252.3	1788.6	2515.7	2498.2	1890.3
70°	71.5	73.1	82.6	108.9	202.6	432.3	956.7	1604.3	2444.9	2438.6	1797.4
72.5°	54.8	56.4	64.4	71.5	105.7	245.5	647.6	1246.7	2041.3	2023.8	1401.7
75°	42.9	43.7	51.6	58.0	70.7	115.2	325.0	777.1	1315.0	1269.8	797.8
77.5°	34.2	35.0	38.9	46.1	54.0	64.4	96.1	349.6	534.8	477.5	259.0
80°	22.2	23.0	29.4	35.8	46.1	42.1	37.3	100.9	114.4	103.3	46.1
82.5°	12.7	13.5	19.9	28.6	35.0	23.8	21.5	29.4	27.0	26.2	14.3
85°	4.0	4.0	13.5	19.9	15.9	7.2	13.5	10.3	8.7	7.9	4.8
87.5°	0.8	0.8	6.4	7.2	2.4	0.8	1.6	2.4	3.2	4.0	2.4
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°	329.0	329.0	329.0	329.0	329.0	329.0	329.0	329.0	329.0	329.0	329.0
2.5°	329.8	313.9	284.5	259.0	234.4	212.9	197.9	184.3	174.8	172.4	168.5
5°	332.1	301.1	244.7	197.1	155.7	122.4	103.3	90.6	84.2	80.3	80.3
7.5°	334.5	288.4	207.4	143.8	98.5	74.7	62.8	57.2	54.8	54.0	53.2
10°	339.3	278.9	175.6	103.3	67.5	56.4	51.6	49.3	47.7	46.9	46.9
12.5°	347.2	271.0	146.2	76.3	55.6	50.1	46.9	43.7	42.1	41.3	41.3
15°	357.6	265.4	120.8	61.2	50.9	45.3	41.3	38.1	35.8	35.0	35.0
17.5°	371.9	261.4	99.3	54.0	46.9	40.5	35.8	32.6	30.2	29.4	29.4
20°	386.2	261.4	81.8	50.1	42.9	35.8	31.0	27.0	24.6	23.8	23.8
22.5°	405.2	260.6	68.3	46.1	38.1	31.0	26.2	21.5	19.9	19.1	19.1
25°	421.1	260.6	58.8	42.1	33.4	27.0	21.5	17.5	15.9	15.1	15.1
27.5°	440.2	258.2	50.1	37.3	28.6	22.2	17.5	14.3	12.7	11.9	11.9
30°	456.9	255.1	44.5	33.4	24.6	18.3	14.3	11.1	10.3	10.3	10.3
32.5°	484.7	252.7	39.7	28.6	20.7	15.1	11.1	8.7	7.9	7.9	7.9
35°	518.1	252.7	36.6	24.6	17.5	12.7	8.7	7.2	6.4	6.4	6.4
37.5°	561.8	255.1	32.6	21.5	14.3	10.3	7.2	5.6	4.8	4.8	4.8
40°	607.9	260.6	29.4	19.1	12.7	7.9	5.6	4.0	3.2	4.0	4.0
42.5°	662.7	266.2	26.2	16.7	10.3	6.4	4.0	2.4	1.6	2.4	2.4
45°	716.7	271.7	24.6	14.3	8.7	4.8	2.4	1.6	0.8	1.6	1.6
47.5°	783.5	285.3	23.0	12.7	7.2	4.0	1.6	0.8	0.0	0.8	0.8
50°	860.5	300.4	20.7	10.3	5.6	3.2	1.6	0.0	0.0	0.0	0.0
52.5°	934.4	313.1	18.3	8.7	4.8	2.4	0.8	0.0	0.0	0.0	0.0
55°	1008.3	321.0	15.9	7.2	4.0	2.4	0.8	0.0	0.0	0.0	0.0
57.5°	1087.8	325.8	14.3	6.4	3.2	1.6	0.8	0.0	0.0	0.0	0.0
60°	1176.0	325.8	11.9	5.6	2.4	1.6	0.8	0.0	0.0	0.0	0.0
62.5°	1273.7	316.2	11.1	4.8	2.4	1.6	0.8	0.0	0.0	0.0	0.0
65°	1353.2	282.1	9.5	4.0	2.4	1.6	0.8	0.0	0.0	0.0	0.0
67.5°	1356.4	223.3	8.7	3.2	2.4	1.6	0.8	0.0	0.0	0.0	0.0
70°	1209.4	152.6	7.2	2.4	1.6	1.6	0.8	0.0	0.0	0.0	0.0
72.5°	905.0	81.8	6.4	2.4	1.6	0.8	0.8	0.0	0.0	0.0	0.0
75°	487.9	31.8	4.0	2.4	1.6	0.8	0.8	0.0	0.0	0.0	0.0
77.5°	142.2	15.9	2.4	1.6	1.6	0.8	0.8	0.0	0.0	0.0	0.0
80°	26.2	7.9	1.6	1.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	7.2	3.2	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
85°	3.2	1.6	0.8	0.8	0.8	0.8	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)