

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: P595497

Luminaire Tested: **ISW-PA1A-830-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595497  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISW-PA1A-830-U-T2R  
Description: IMPACT ELITE LED WEDGE LUMINAIRE  
(1) 80 CRI, 3000K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3301 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1

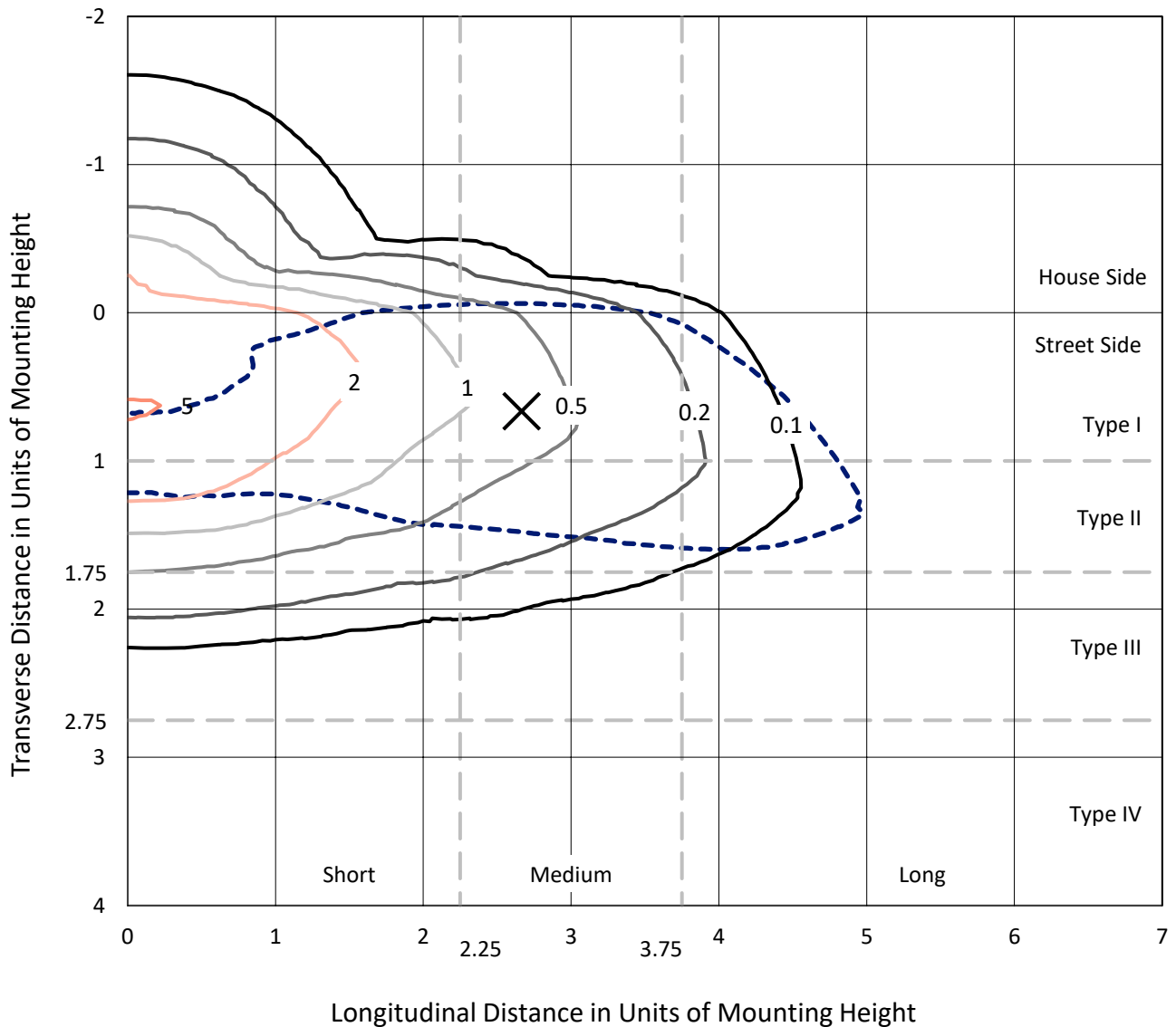
Input Watts (W): 28.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

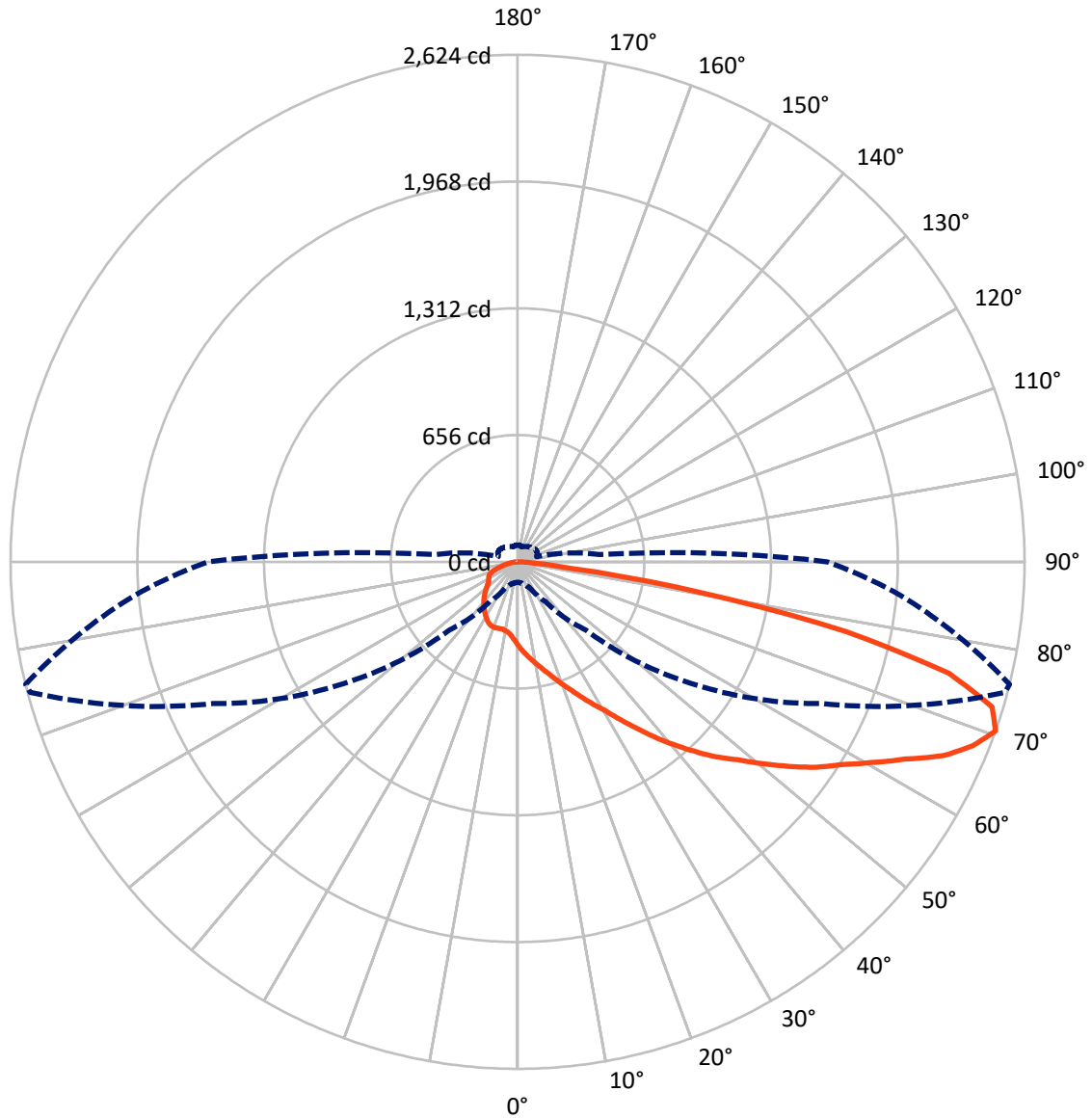
✕ Max cd  
 - - - 1/2 Max cd



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 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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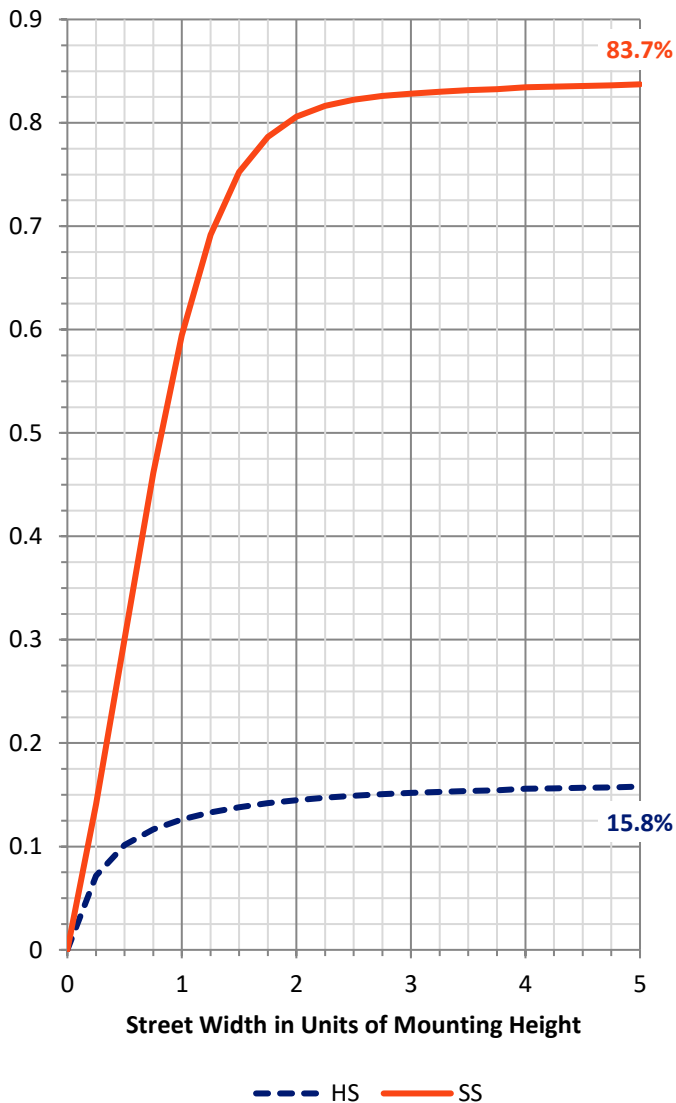
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	529.5	0.0	529.5
	% Fixture	16.0	0.0	16.0
<b>Street Side</b>	Lumens	2771.6	0.0	2771.6
	% Fixture	84.0	0.0	84.0
<b>Total</b>	Lumens	3301.0	0.0	3301.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.2	1.3
10°-20°	139.3	4.2
20°-30°	256.7	7.8
30°-40°	430.0	13.0
40°-50°	611.0	18.5
50°-60°	705.5	21.4
60°-70°	648.5	19.6
70°-80°	408.9	12.4
80°-90°	58.8	1.8
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°	3301.0	100.0
0°-180°	3301.0	100.0

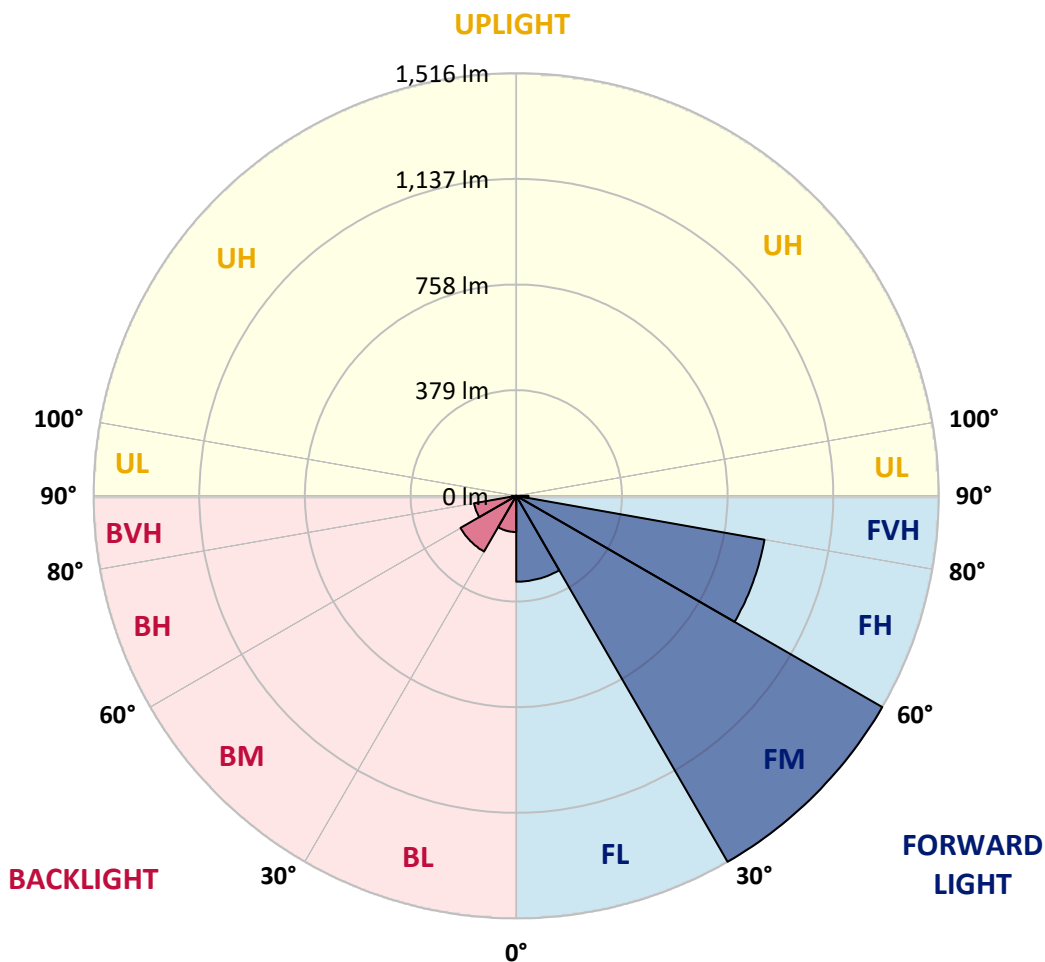


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	308.2	9.3			
FM (30°-60°)	1515.7	45.9			
FH (60°-80°)	904.0	27.4			G1/1800
FVH (80°-90°)	43.6	1.3			G1/100
BL (0°-30°)	130.0	3.9	B1/500		
BM (30°-60°)	230.8	7.0	B1/1000		
BH (60°-80°)	153.4	4.6	B1/500		G1/500
BVH (80°-90°)	15.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	433.0	433.0	433.0	433.0	433.0	433.0	433.0	433.0	433.0	433.0	433.0
2.5°	521.2	520.4	518.1	514.1	510.9	501.4	488.7	477.5	460.9	459.3	442.6
5°	568.1	564.9	564.9	561.0	557.0	546.7	530.8	510.9	487.1	485.5	453.7
7.5°	590.4	591.2	589.6	586.4	587.2	578.4	564.1	544.3	511.7	510.1	468.8
10°	622.2	621.4	618.2	615.8	615.0	607.1	594.3	576.1	541.9	538.7	486.3
12.5°	653.1	650.8	651.5	650.8	649.2	641.2	629.3	611.0	568.9	567.3	507.7
15°	670.6	669.8	675.4	677.0	683.3	676.2	665.9	645.2	607.1	600.7	533.2
17.5°	681.7	680.9	686.5	699.2	711.1	711.1	708.0	685.7	643.6	638.8	561.8
20°	700.8	704.0	713.5	723.9	741.3	744.5	743.7	734.2	685.7	680.9	593.5
22.5°	739.0	737.4	745.3	761.2	777.1	781.9	782.7	782.7	734.2	725.4	626.1
25°	820.8	816.8	810.5	808.9	827.9	827.1	824.8	830.3	785.0	778.7	663.5
27.5°	976.5	967.8	943.2	893.9	882.8	886.7	874.8	875.6	843.0	835.1	695.3
30°	1124.3	1120.3	1097.3	1037.7	974.9	952.7	932.0	923.3	907.4	893.9	729.4
32.5°	1257.8	1258.6	1230.8	1165.6	1101.3	1031.4	995.6	977.3	983.7	971.8	776.3
35°	1348.4	1341.2	1323.8	1280.1	1210.1	1143.4	1075.1	1034.5	1068.7	1055.2	823.2
37.5°	1401.6	1396.1	1381.8	1350.8	1315.8	1251.5	1164.8	1102.9	1169.6	1149.7	882.8
40°	1428.6	1420.7	1406.4	1393.7	1377.0	1342.0	1265.8	1180.7	1261.8	1244.3	941.6
42.5°	1431.8	1426.3	1418.3	1412.0	1417.5	1412.7	1364.3	1271.3	1358.7	1339.6	1009.1
45°	1429.4	1433.4	1423.9	1412.7	1423.9	1464.4	1464.4	1361.9	1454.9	1440.6	1073.5
47.5°	1431.0	1427.1	1423.9	1420.7	1422.3	1477.9	1533.5	1446.9	1547.0	1530.3	1149.0
50°	1365.1	1370.6	1397.7	1409.6	1416.7	1481.1	1589.1	1539.1	1661.5	1640.8	1233.2
52.5°	1155.3	1158.5	1281.6	1370.6	1399.2	1468.4	1628.1	1641.6	1774.3	1758.4	1323.8
55°	889.9	906.6	1023.4	1241.1	1359.5	1446.9	1640.0	1708.3	1889.5	1876.8	1415.1
57.5°	732.6	735.0	802.5	997.2	1234.0	1427.1	1651.9	1769.5	1992.8	1978.5	1510.5
60°	607.8	602.3	643.6	769.1	1025.0	1347.6	1654.3	1818.0	2112.8	2108.0	1609.0
62.5°	446.5	452.9	492.6	599.1	801.7	1186.3	1642.4	1859.3	2255.8	2249.4	1718.7
65°	274.1	282.1	330.5	428.3	607.1	941.6	1564.5	1880.8	2406.0	2420.3	1837.1
67.5°	145.4	151.0	179.6	259.0	416.4	717.5	1377.0	1853.7	2533.1	2539.5	1950.7
70°	106.5	107.3	116.8	146.2	251.1	499.0	1096.5	1736.1	2611.0	2623.7	1988.0
72.5°	93.0	93.8	97.7	104.9	136.7	304.3	785.8	1531.1	2578.4	2567.3	1925.2
75°	84.2	84.2	87.4	89.8	100.1	168.4	481.5	1253.0	2329.7	2305.1	1641.6
77.5°	72.3	72.3	75.5	78.7	86.6	108.9	251.9	928.9	1781.4	1739.3	1122.7
80°	58.0	58.0	62.0	65.9	76.3	81.8	123.2	621.4	1018.6	956.7	510.9
82.5°	39.7	42.9	50.1	54.8	63.6	58.0	72.3	268.6	321.0	278.1	115.2
85°	23.8	25.4	35.8	41.3	47.7	31.0	44.5	103.3	96.1	84.2	26.2
87.5°	2.4	4.0	14.3	16.7	16.7	8.7	19.1	24.6	27.8	28.6	6.4
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°	433.0	433.0	433.0	433.0	433.0	433.0	433.0	433.0	433.0	433.0	433.0
2.5°	433.0	423.5	405.2	388.5	371.9	360.7	349.6	345.6	340.1	336.1	339.3
5°	437.0	417.2	382.2	352.8	332.9	317.8	310.7	306.7	303.5	302.7	301.9
7.5°	441.8	412.4	365.5	332.9	313.9	306.7	305.1	305.1	305.1	305.9	306.7
10°	452.1	414.0	356.8	321.8	311.5	309.9	310.7	313.9	313.9	314.7	314.7
12.5°	464.0	417.9	350.4	320.2	313.9	314.7	315.4	317.0	317.0	319.4	318.6
15°	481.5	425.9	349.6	321.8	316.2	314.7	314.7	313.9	313.9	313.9	315.4
17.5°	503.8	437.0	350.4	321.8	313.9	310.7	308.3	305.9	302.7	304.3	302.7
20°	526.0	450.5	350.4	317.8	307.5	299.6	292.4	288.4	284.5	283.7	284.5
22.5°	553.8	466.4	346.4	309.1	294.0	282.9	272.5	267.0	260.6	258.2	256.6
25°	577.7	479.1	338.5	296.4	278.9	263.0	249.5	240.0	232.0	230.4	230.4
27.5°	602.3	490.3	326.6	280.5	257.4	240.0	224.9	212.9	205.0	204.2	203.4
30°	625.3	499.8	310.7	263.0	238.4	217.7	200.2	189.9	182.8	178.8	176.4
32.5°	655.5	512.5	295.6	245.5	216.1	195.5	179.6	170.8	161.3	154.9	152.6
35°	693.7	527.6	278.9	226.5	196.3	175.6	166.1	153.4	141.4	134.3	131.9
37.5°	736.6	549.0	261.4	206.6	176.4	161.3	155.7	135.9	123.2	120.8	120.0
40°	789.8	569.7	241.6	185.9	157.3	153.4	143.8	123.2	116.8	116.0	115.2
42.5°	843.0	592.0	222.5	165.3	142.2	143.8	130.3	120.0	114.4	112.8	112.0
45°	905.0	614.2	203.4	147.0	130.3	130.3	123.2	116.8	112.0	110.4	110.4
47.5°	970.2	636.5	182.8	131.1	121.6	116.8	117.6	112.8	109.7	108.1	107.3
50°	1052.0	657.9	163.7	120.0	116.0	109.7	112.0	108.9	107.3	105.7	104.9
52.5°	1129.1	667.4	146.2	113.6	112.8	106.5	107.3	105.7	104.9	102.5	101.7
55°	1204.6	665.1	132.7	110.4	108.9	105.7	104.1	103.3	102.5	100.1	99.3
57.5°	1288.8	661.9	124.0	109.7	106.5	103.3	103.3	100.9	97.7	97.7	97.7
60°	1376.2	651.5	120.0	109.7	105.7	103.3	101.7	99.3	96.1	96.9	96.1
62.5°	1474.7	631.7	117.6	112.0	106.5	102.5	100.9	97.7	93.8	94.6	93.8
65°	1561.3	591.2	116.0	114.4	108.1	103.3	99.3	95.3	90.6	91.4	90.6
67.5°	1620.1	522.8	111.2	116.0	110.4	102.5	97.7	92.2	85.8	89.0	88.2
70°	1603.4	425.1	102.5	112.8	112.8	103.3	95.3	88.2	81.0	87.4	85.0
72.5°	1473.9	319.4	85.8	101.7	111.2	103.3	90.6	81.8	75.5	79.5	74.7
75°	1210.1	216.9	68.3	81.0	104.1	104.1	86.6	75.5	67.5	65.2	63.6
77.5°	754.8	135.1	53.2	59.6	87.4	103.3	82.6	67.5	56.4	54.8	53.2
80°	298.8	72.3	42.1	42.9	64.4	94.6	77.1	57.2	45.3	43.7	40.5
82.5°	68.3	36.6	29.4	28.6	39.7	77.1	69.9	45.3	35.0	35.0	29.4
85°	20.7	19.1	19.1	18.3	19.9	39.7	54.0	31.0	23.8	16.7	14.3
87.5°	5.6	7.9	7.2	6.4	6.4	5.6	17.5	7.9	4.8	2.4	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

(END OF REPORT)