

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: P595098

Luminaire Tested: **IST-PA1B-830-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595098  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: IST-PA1B-830-U-T4W  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 80 CRI, 3000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4070 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

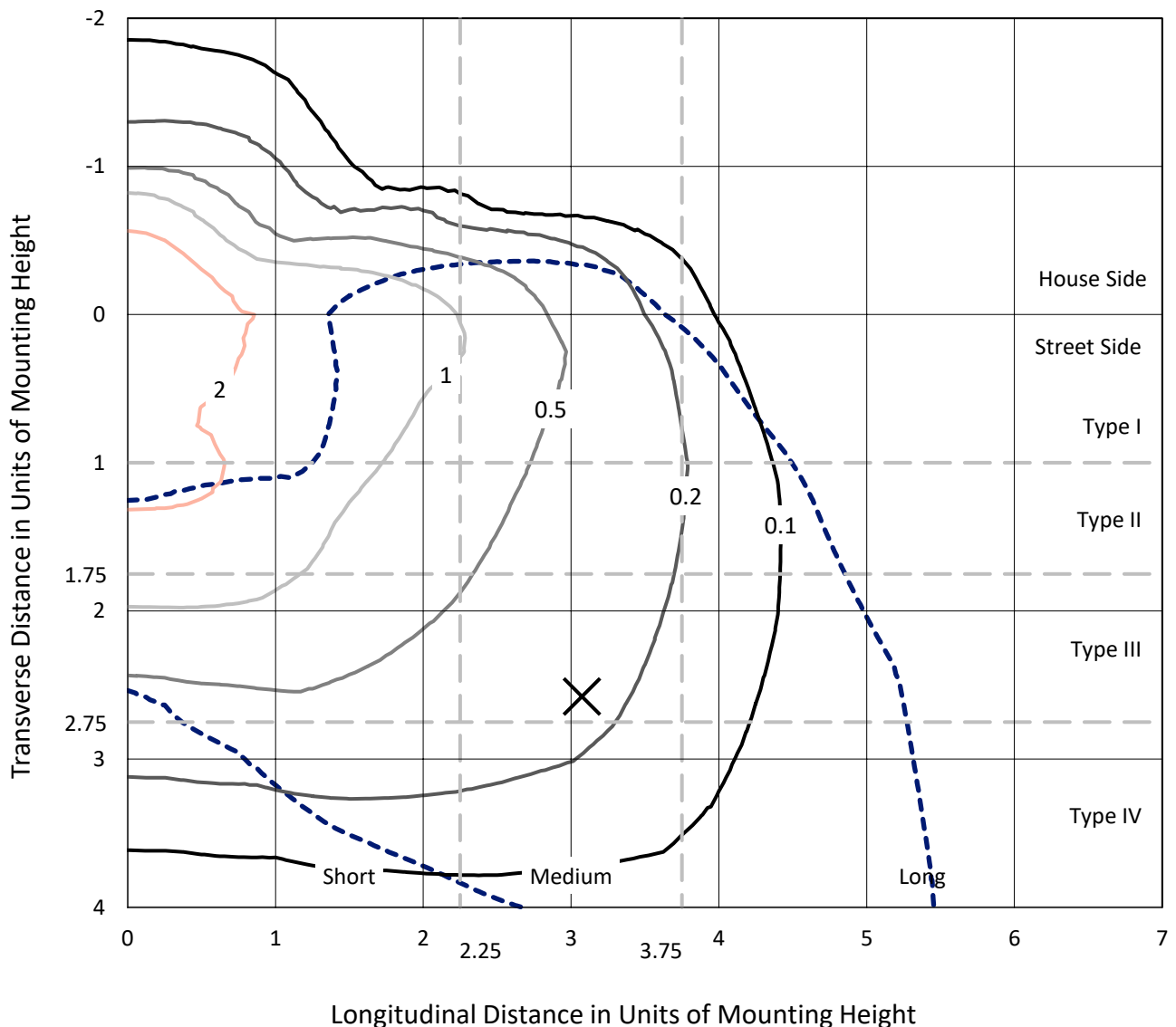
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

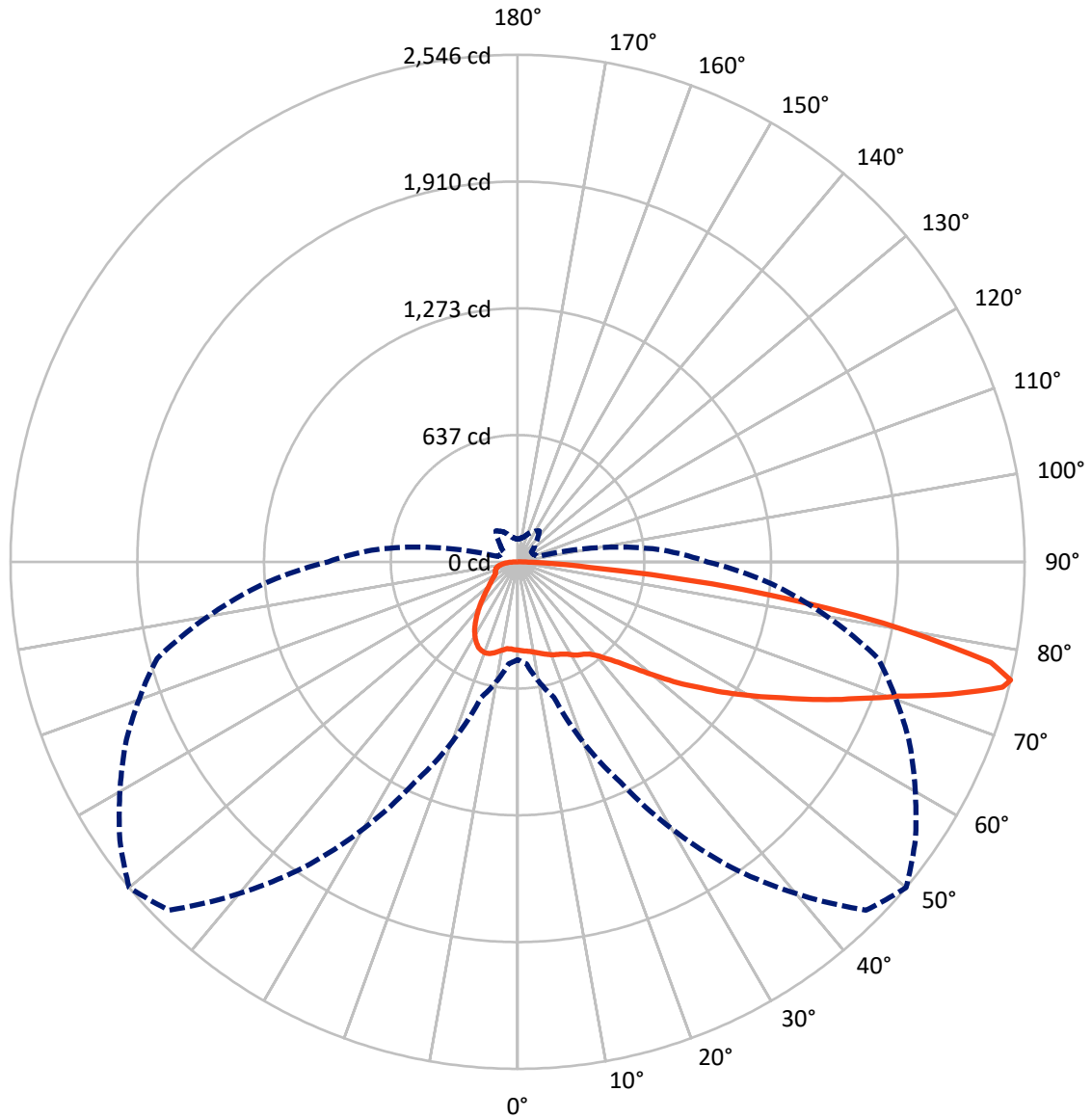
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.3 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral      - - - Horizontal Cone Through 76-Deg Vertical

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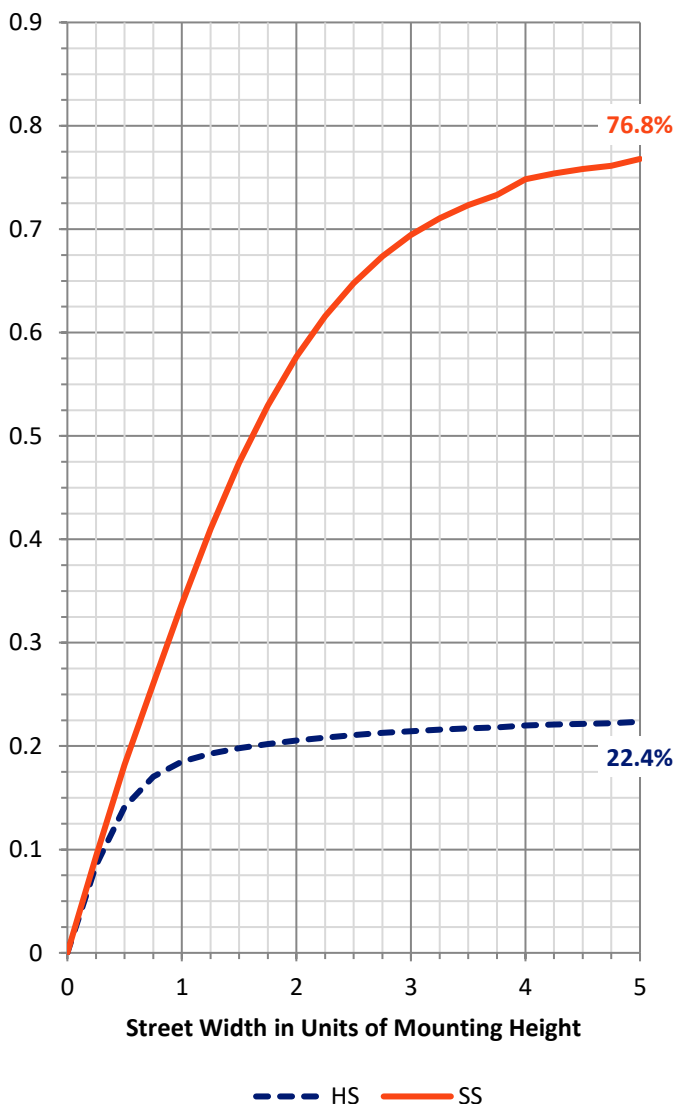
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	931.1	0.0	931.1
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	3138.9	0.0	3138.9
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	4070.0	0.0	4070.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.1	1.1
10°-20°	135.4	3.3
20°-30°	228.8	5.6
30°-40°	313.6	7.7
40°-50°	461.8	11.3
50°-60°	726.5	17.9
60°-70°	1045.7	25.7
70°-80°	950.9	23.4
80°-90°	164.2	4.0
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°	4070.0	100.0
0°-180°	4070.0	100.0

**Coefficient of Utilization**

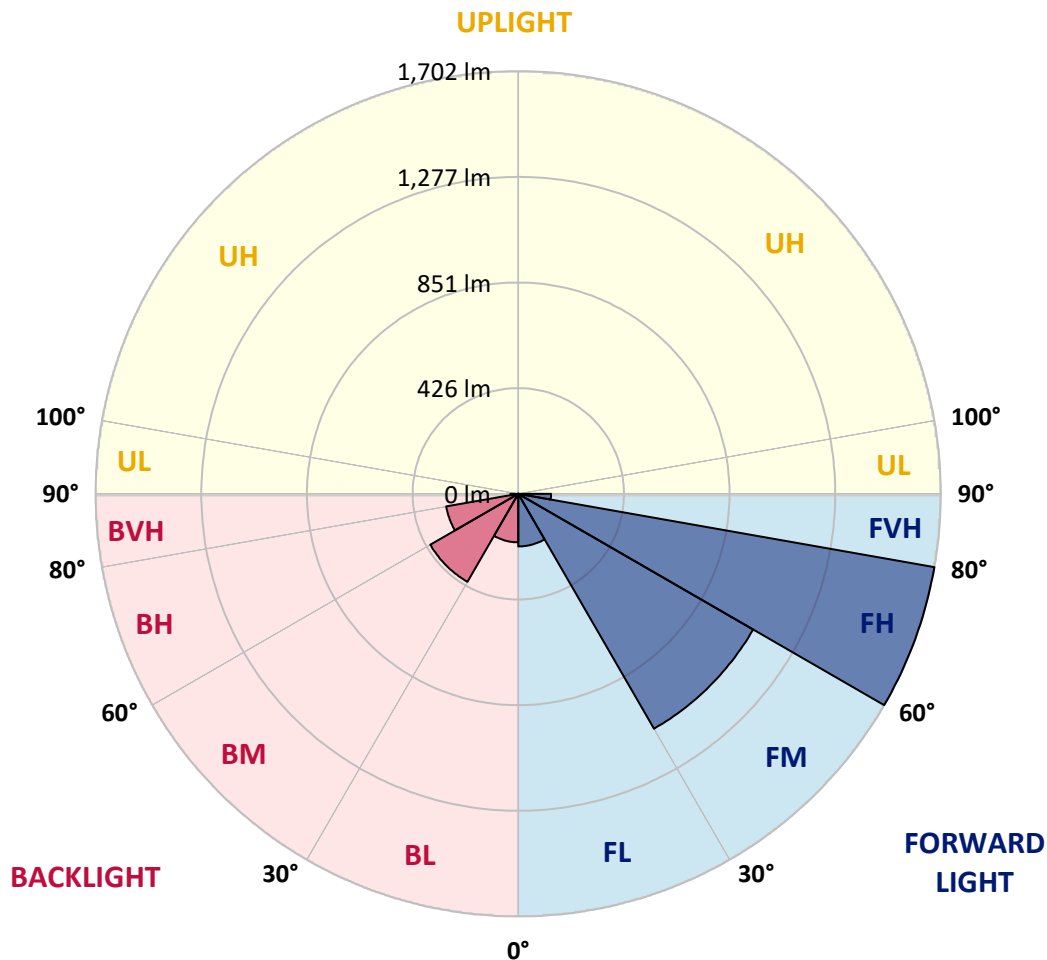


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	211.8	5.2			
FM (30°-60°)	1092.7	26.8			
FH (60°-80°)	1702.3	41.8			G1/1800
FVH (80°-90°)	132.1	3.2			G2/225
BL (0°-30°)	195.5	4.8	B1/500		
BM (30°-60°)	409.2	10.1	B1/1000		
BH (60°-80°)	294.4	7.2	B1/500		G1/500
BVH (80°-90°)	32.0	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	443.6	443.6	443.6	443.6	443.6	443.6	443.6	443.6	443.6	443.6	443.6
2.5°	453.6	453.6	454.6	452.6	452.6	447.6	447.6	446.6	444.6	443.6	441.6
5°	470.5	470.5	467.5	462.6	459.6	453.6	450.6	448.6	444.6	439.6	434.6
7.5°	488.5	486.5	484.5	476.5	470.5	459.6	454.6	451.6	443.6	436.6	433.7
10°	507.4	504.4	499.4	489.5	480.5	467.5	461.6	457.6	448.6	442.6	435.6
12.5°	518.4	518.4	512.4	500.4	488.5	472.5	469.5	464.6	455.6	447.6	440.6
15°	529.4	530.4	524.4	510.4	496.5	484.5	479.5	476.5	466.5	454.6	445.6
17.5°	540.3	539.3	533.3	517.4	502.4	491.5	488.5	484.5	474.5	463.6	454.6
20°	548.3	546.3	544.3	524.4	509.4	502.4	498.5	495.5	485.5	473.5	461.6
22.5°	550.3	552.3	550.3	526.4	514.4	506.4	505.4	502.4	494.5	483.5	471.5
25°	551.3	552.3	555.3	532.3	521.4	515.4	513.4	511.4	505.4	496.5	480.5
27.5°	556.3	557.3	557.3	536.3	530.4	526.4	524.4	524.4	521.4	510.4	494.5
30°	557.3	558.3	560.3	546.3	544.3	541.3	542.3	541.3	536.3	524.4	506.4
32.5°	564.2	565.2	570.2	552.3	554.3	557.3	558.3	557.3	547.3	537.3	522.4
35°	587.2	586.2	590.2	567.2	565.2	566.2	569.2	568.2	564.2	555.3	545.3
37.5°	660.9	660.9	650.0	602.1	587.2	585.2	587.2	592.2	593.2	585.2	577.2
40°	790.5	783.6	777.6	673.9	626.1	614.1	620.1	623.1	631.0	631.0	631.0
42.5°	924.1	925.1	923.1	785.6	695.8	665.9	666.9	673.9	690.9	693.8	702.8
45°	1042.8	1049.7	1064.7	915.2	798.5	731.7	724.7	731.7	755.7	775.6	798.5
47.5°	1135.5	1127.5	1160.4	1050.7	916.2	821.4	803.5	805.5	838.4	870.3	906.2
50°	1215.2	1217.2	1232.2	1189.3	1064.7	923.1	899.2	895.2	942.1	976.0	1036.8
52.5°	1304.9	1299.0	1320.9	1310.9	1209.2	1047.7	1009.9	997.9	1048.7	1096.6	1162.4
55°	1347.8	1353.8	1398.7	1423.6	1345.8	1159.4	1117.5	1121.5	1175.3	1226.2	1317.9
57.5°	1423.6	1429.6	1481.4	1533.2	1467.4	1278.0	1241.1	1241.1	1302.0	1358.8	1500.3
60°	1527.3	1528.2	1581.1	1670.8	1574.1	1392.7	1368.7	1367.7	1433.5	1499.3	1715.7
62.5°	1573.1	1585.1	1663.8	1780.5	1713.7	1533.2	1505.3	1513.3	1572.1	1648.9	1955.9
65°	1511.3	1537.2	1701.7	1854.2	1838.3	1679.8	1668.8	1679.8	1715.7	1798.4	2210.1
67.5°	1306.9	1341.8	1631.9	1904.1	1938.0	1849.3	1833.3	1831.3	1854.2	1946.9	2370.6
70°	1201.3	1222.2	1447.5	1923.0	2017.7	2020.7	2020.7	2007.8	2004.8	2072.6	2385.6
72.5°	988.9	1010.9	1221.2	1817.3	2093.5	2250.0	2272.9	2225.1	2151.3	2137.4	2135.4
75°	704.8	720.8	902.2	1429.6	1996.8	2470.3	2516.2	2423.5	2218.1	1995.8	1557.2
76°	491.5	514.4	704.8	1221.2	1875.2	2474.3	2546.1	2438.4	2173.2	1874.2	1283.0
77.5°	249.2	257.2	407.7	820.4	1569.1	2360.7	2430.4	2309.8	1977.9	1514.3	814.5
80°	94.7	97.7	145.5	299.1	861.3	1833.3	1860.2	1697.7	1308.9	647.0	293.1
82.5°	49.8	51.8	81.7	147.5	353.9	1007.9	1137.5	947.1	513.4	194.4	85.7
85°	24.9	26.9	47.9	89.7	175.5	315.0	364.9	344.9	170.5	73.8	31.9
87.5°	10.0	12.0	23.9	39.9	70.8	61.8	68.8	88.7	54.8	34.9	11.0
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°	443.6	443.6	443.6	443.6	443.6	443.6	443.6	443.6	443.6	443.6	443.6
2.5°	441.6	440.6	441.6	440.6	441.6	441.6	442.6	440.6	440.6	442.6	439.6
5°	434.6	433.7	434.6	436.6	437.6	439.6	443.6	442.6	444.6	446.6	447.6
7.5°	431.7	430.7	433.7	434.6	437.6	441.6	447.6	451.6	453.6	457.6	455.6
10°	434.6	434.6	438.6	441.6	446.6	451.6	456.6	460.6	465.6	468.5	467.5
12.5°	439.6	438.6	445.6	449.6	456.6	461.6	465.6	467.5	471.5	475.5	474.5
15°	444.6	445.6	455.6	463.6	471.5	473.5	474.5	472.5	474.5	476.5	476.5
17.5°	454.6	455.6	466.5	475.5	482.5	480.5	475.5	470.5	470.5	471.5	472.5
20°	462.6	464.6	477.5	485.5	489.5	481.5	473.5	467.5	464.6	465.6	464.6
22.5°	471.5	475.5	488.5	492.5	486.5	476.5	466.5	458.6	458.6	459.6	459.6
25°	482.5	484.5	493.5	491.5	480.5	465.6	457.6	454.6	453.6	454.6	455.6
27.5°	492.5	493.5	498.5	484.5	463.6	447.6	444.6	445.6	446.6	447.6	448.6
30°	505.4	507.4	502.4	474.5	442.6	424.7	424.7	430.7	432.7	435.6	434.6
32.5°	521.4	523.4	508.4	461.6	415.7	397.8	398.8	407.7	413.7	415.7	416.7
35°	548.3	544.3	512.4	443.6	386.8	364.9	365.9	376.8	384.8	387.8	385.8
37.5°	581.2	580.2	518.4	420.7	350.9	331.0	332.0	337.0	344.9	345.9	346.9
40°	636.0	628.0	528.4	390.8	315.0	296.1	294.1	297.1	296.1	298.1	299.1
42.5°	714.8	693.8	541.3	356.9	283.1	263.2	261.2	256.2	250.2	244.2	241.2
45°	807.5	774.6	557.3	322.0	250.2	232.3	227.3	221.3	209.3	196.4	192.4
47.5°	927.1	864.3	575.2	287.1	219.3	205.4	201.4	192.4	178.4	163.5	160.5
50°	1049.7	970.0	593.2	258.2	194.4	186.4	182.4	173.5	155.5	141.6	138.6
52.5°	1192.3	1074.7	612.1	232.3	172.5	172.5	169.5	155.5	138.6	125.6	123.6
55°	1356.8	1182.3	642.0	207.4	156.5	160.5	156.5	142.6	126.6	117.6	116.6
57.5°	1553.2	1318.9	679.9	180.4	142.6	145.5	145.5	135.6	124.6	118.6	117.6
60°	1750.6	1457.5	703.8	160.5	131.6	134.6	140.6	135.6	128.6	125.6	124.6
62.5°	1940.0	1599.0	662.9	143.6	120.6	129.6	144.6	145.5	138.6	139.6	139.6
65°	2081.5	1706.7	536.3	128.6	113.6	132.6	156.5	157.5	145.5	142.6	141.6
67.5°	2130.4	1736.6	360.9	118.6	109.7	134.6	170.5	166.5	145.5	139.6	136.6
70°	2037.7	1626.9	234.3	109.7	103.7	132.6	181.4	171.5	144.6	135.6	131.6
72.5°	1708.7	1387.7	156.5	101.7	97.7	130.6	188.4	171.5	141.6	128.6	124.6
75°	1186.3	948.1	116.6	91.7	88.7	127.6	190.4	168.5	134.6	120.6	117.6
76°	952.0	710.8	105.7	87.7	84.7	125.6	189.4	165.5	129.6	116.6	113.6
77.5°	601.1	408.7	88.7	80.7	78.8	121.6	185.4	158.5	122.6	109.7	106.7
80°	210.3	149.5	67.8	65.8	66.8	112.6	174.5	144.6	108.7	96.7	92.7
82.5°	83.7	68.8	50.8	50.8	52.8	96.7	157.5	127.6	94.7	79.8	73.8
85°	32.9	29.9	35.9	35.9	37.9	78.8	131.6	99.7	64.8	49.8	47.9
87.5°	10.0	14.0	16.0	16.9	17.9	39.9	74.8	43.9	28.9	20.9	16.9
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)