

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: P595087

Luminaire Tested: **IST-PA1B-827-U-T3**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595087  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: IST-PA1B-827-U-T3  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 80 CRI, 2700K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3762 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G1

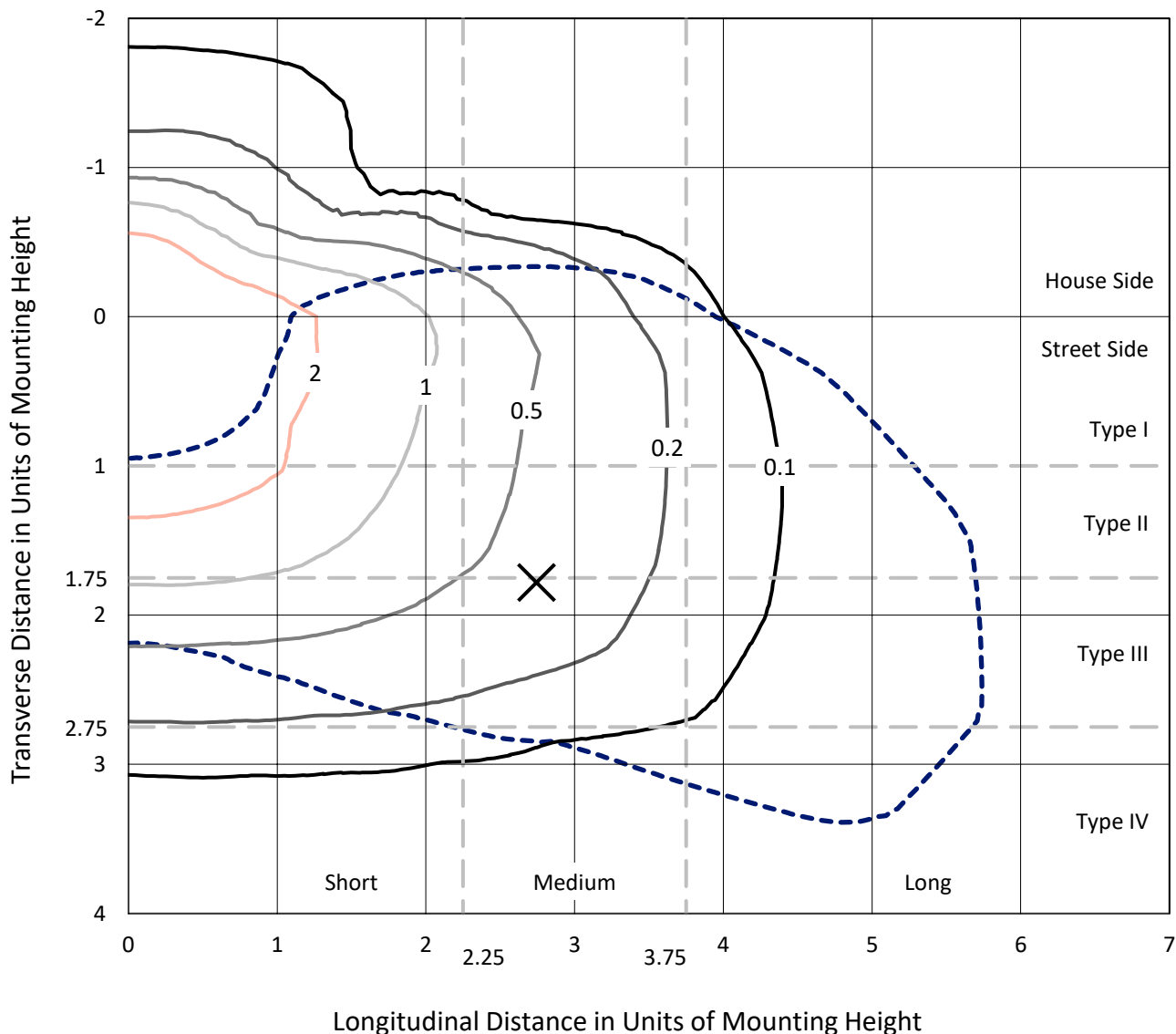
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

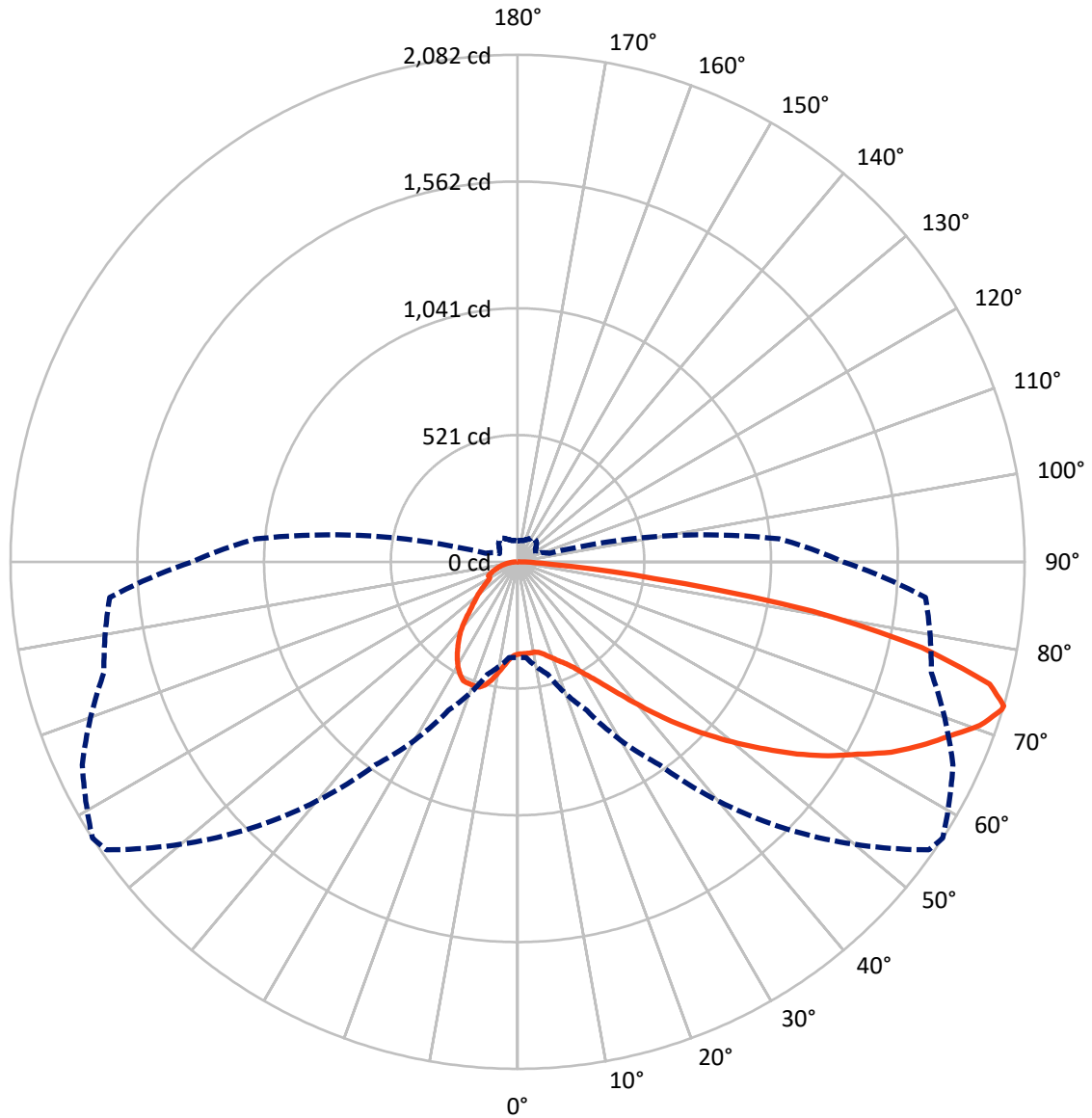
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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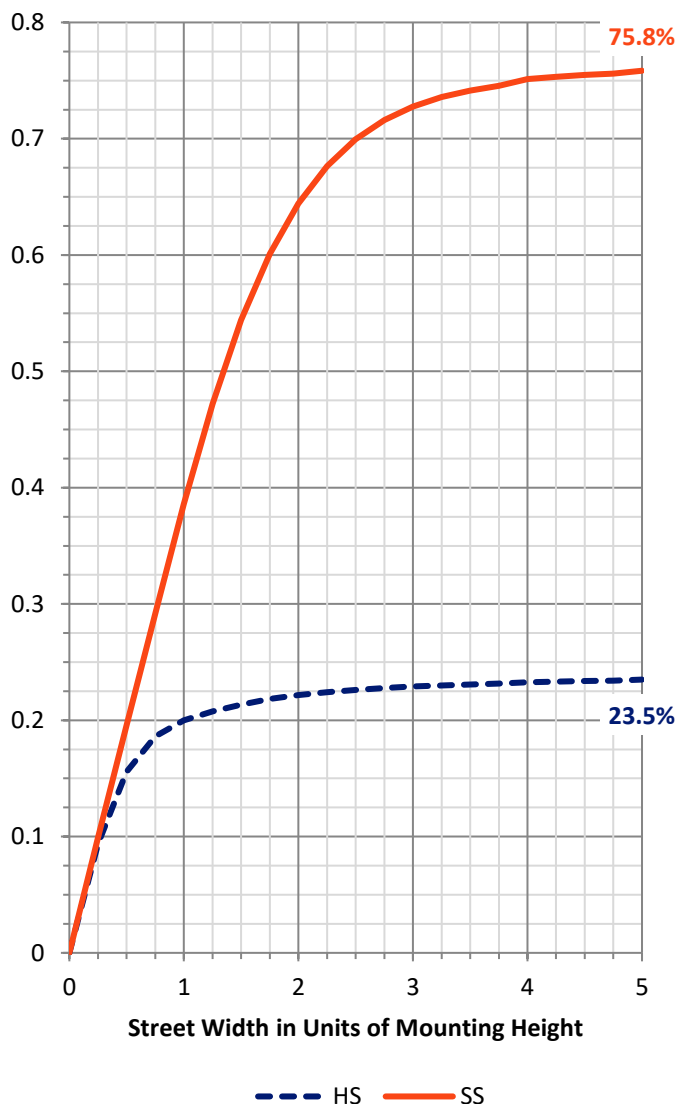
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	897.5	0.0	897.5
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	2864.5	0.0	2864.5
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	3762.0	0.0	3762.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.8	1.0
10°-20°	124.5	3.3
20°-30°	229.8	6.1
30°-40°	354.8	9.4
40°-50°	534.0	14.2
50°-60°	781.6	20.8
60°-70°	923.0	24.5
70°-80°	660.8	17.6
80°-90°	115.8	3.1
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°	3762.0	100.0
0°-180°	3762.0	100.0

**Coefficient of Utilization**

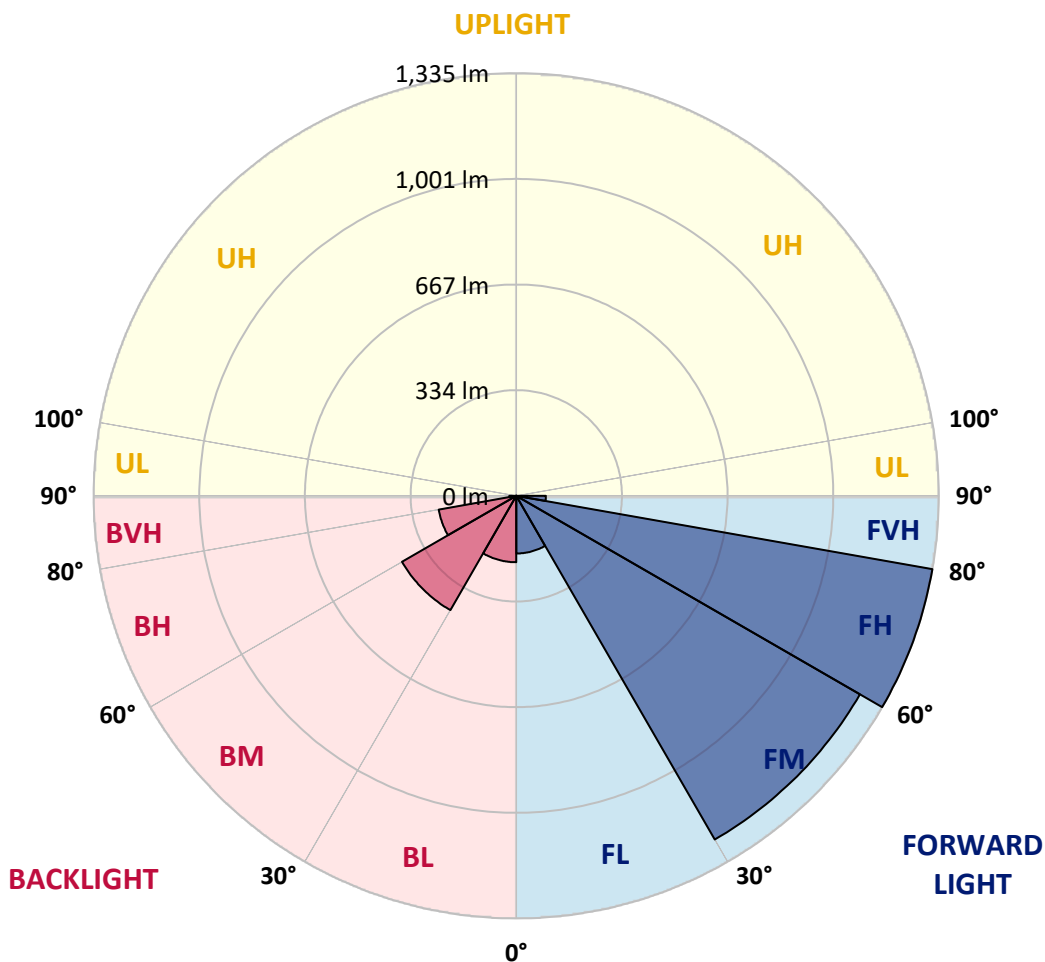


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	182.3	4.8			
FM (30°-60°)	1253.6	33.3			
FH (60°-80°)	1335.0	35.5			G1/1800
FVH (80°-90°)	93.7	2.5			G1/100
BL (0°-30°)	209.7	5.6	B1/500		
BM (30°-60°)	416.8	11.1	B1/1000		
BH (60°-80°)	248.8	6.6	B1/500		G1/500
BVH (80°-90°)	22.1	0.6			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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0
2.5°	374.4	376.3	375.3	376.3	379.0	377.2	377.2	378.1	379.0	378.1	379.9
5°	358.7	359.7	361.5	365.2	371.6	373.5	378.1	378.1	379.9	381.8	384.6
7.5°	332.9	334.8	338.4	342.1	353.2	364.3	376.3	378.1	384.6	389.2	391.0
10°	328.3	330.1	331.1	336.6	347.7	358.7	373.5	377.2	389.2	396.5	404.8
12.5°	323.7	325.5	328.3	335.7	349.5	361.5	377.2	380.9	395.6	410.4	420.5
15°	327.4	328.3	331.1	338.4	352.3	368.9	389.2	391.9	408.5	427.0	442.7
17.5°	336.6	337.5	336.6	343.1	356.0	375.3	403.0	407.6	427.9	446.3	462.0
20°	357.8	358.7	355.0	355.0	364.3	383.6	417.8	424.2	449.1	469.4	485.1
22.5°	403.9	402.1	392.9	380.9	380.9	396.5	434.4	443.6	474.9	491.5	505.4
25°	469.4	469.4	454.6	432.5	417.8	415.9	453.7	463.9	500.8	521.0	529.3
27.5°	548.7	549.6	525.7	496.1	467.6	453.7	481.4	491.5	533.0	554.2	557.0
30°	618.8	619.7	595.7	568.1	533.0	502.6	518.3	529.3	577.3	593.9	584.7
32.5°	688.9	689.8	673.2	635.4	598.5	560.7	565.3	571.8	620.6	636.3	621.6
35°	749.7	752.5	735.9	707.3	668.6	634.5	626.2	627.1	671.4	681.5	662.1
37.5°	811.5	811.5	801.4	774.6	741.4	703.6	692.6	695.3	735.0	745.1	717.5
40°	889.9	893.6	888.1	854.9	817.1	785.7	774.6	778.3	821.7	816.1	786.6
42.5°	984.9	993.2	984.0	948.0	907.4	872.4	872.4	872.4	909.3	910.2	865.9
45°	1106.6	1106.6	1097.4	1066.1	1012.6	977.5	965.5	968.3	1000.6	1004.3	952.6
47.5°	1208.1	1217.3	1207.2	1184.1	1141.7	1108.5	1070.7	1066.1	1092.8	1092.8	1048.5
50°	1290.2	1306.8	1298.5	1308.6	1278.2	1261.6	1184.1	1171.2	1180.4	1189.6	1140.8
52.5°	1358.4	1371.3	1368.5	1398.1	1412.8	1422.0	1299.4	1279.1	1286.5	1285.5	1241.3
55°	1363.0	1367.6	1409.1	1475.5	1533.6	1577.0	1415.6	1393.4	1386.1	1382.4	1348.3
57.5°	1336.3	1339.0	1422.0	1500.4	1626.8	1676.6	1525.3	1503.2	1493.0	1480.1	1466.3
60°	1271.7	1285.5	1394.4	1515.2	1682.1	1754.0	1627.7	1604.6	1597.2	1569.6	1600.9
62.5°	1189.6	1196.1	1304.9	1484.7	1689.5	1787.2	1735.6	1721.7	1698.7	1659.0	1720.8
65°	1073.4	1072.5	1168.4	1395.3	1651.7	1803.8	1826.9	1819.5	1790.9	1722.7	1827.8
67.5°	881.6	902.8	996.9	1236.7	1560.4	1820.4	1920.0	1910.8	1865.6	1779.8	1878.5
70°	672.3	685.2	792.2	998.7	1378.7	1775.2	2011.3	2014.1	1932.0	1791.8	1856.4
72.5°	428.8	451.0	535.8	727.6	1103.9	1607.4	2065.7	2078.6	1968.9	1775.2	1719.0
73°	392.9	394.7	477.7	673.2	1018.1	1547.4	2062.0	2082.3	1972.6	1758.6	1681.2
75°	234.2	244.4	294.2	447.3	726.7	1243.1	1962.4	2003.0	1953.2	1684.9	1473.7
77.5°	109.7	117.1	144.8	236.1	395.6	747.9	1649.8	1697.8	1731.0	1474.6	1123.2
80°	58.1	59.0	71.0	119.0	212.1	308.0	1150.0	1229.3	1276.3	1110.3	755.3
82.5°	48.9	48.9	55.3	76.5	135.6	119.9	474.0	564.4	691.6	546.9	296.9
85°	39.7	40.6	55.3	57.2	96.8	61.8	113.4	142.0	268.4	241.6	33.2
87.5°	12.9	14.8	31.4	40.6	51.6	24.0	28.6	31.4	31.4	46.1	11.1
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°	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0
2.5°	380.9	380.9	381.8	382.7	384.6	384.6	386.4	387.3	389.2	390.1	387.3
5°	384.6	386.4	388.2	393.8	400.2	405.8	411.3	415.9	420.5	423.3	422.4
7.5°	394.7	397.5	404.8	415.0	427.9	436.2	444.5	452.8	456.5	458.3	458.3
10°	408.5	414.1	427.9	444.5	459.3	472.2	478.6	484.2	486.0	487.8	486.0
12.5°	427.9	435.3	456.5	477.7	494.3	500.8	499.8	492.5	482.3	480.5	478.6
15°	452.8	462.0	486.0	510.9	523.8	515.5	494.3	486.9	485.1	490.6	488.8
17.5°	474.0	485.1	514.6	540.4	537.6	509.1	502.6	506.3	504.4	505.4	505.4
20°	494.3	510.0	541.3	558.9	534.9	516.4	510.9	506.3	500.8	502.6	500.8
22.5°	520.1	531.2	567.2	568.1	531.2	516.4	504.4	495.2	493.4	494.3	495.2
25°	540.4	557.9	589.3	561.6	531.2	501.7	485.1	483.2	484.2	489.7	487.8
27.5°	568.1	585.6	606.8	557.9	509.1	477.7	471.2	470.3	463.9	465.7	465.7
30°	593.9	615.1	616.0	557.9	481.4	457.4	448.2	431.6	417.8	420.5	419.6
32.5°	628.9	647.4	617.9	535.8	450.0	430.7	405.8	379.9	373.5	377.2	378.1
35°	669.5	684.3	619.7	498.9	418.7	392.9	347.7	332.9	332.0	334.8	337.5
37.5°	723.0	731.3	633.5	456.5	388.2	333.8	298.8	295.1	286.8	281.3	282.2
40°	788.5	778.3	660.3	418.7	352.3	280.3	265.6	255.4	239.8	224.1	226.9
42.5°	861.3	832.7	668.6	388.2	303.4	247.1	233.3	217.6	198.3	181.7	180.8
45°	939.7	893.6	661.2	364.3	254.5	222.2	207.5	189.1	166.0	152.2	152.2
47.5°	1032.9	951.7	638.2	344.9	220.4	200.1	181.7	163.2	147.6	134.6	134.6
50°	1135.2	1019.0	621.6	310.8	196.4	178.9	160.5	145.7	133.7	123.6	123.6
52.5°	1243.1	1082.7	607.7	261.0	175.2	159.5	146.6	134.6	124.5	111.6	109.7
55°	1352.9	1143.5	614.2	213.0	155.9	145.7	137.4	125.4	121.7	119.0	117.1
57.5°	1467.2	1209.9	629.9	174.3	139.3	138.3	134.6	142.9	151.2	145.7	142.9
60°	1556.7	1261.6	631.7	146.6	129.1	145.7	164.2	166.9	144.8	131.9	131.0
62.5°	1627.7	1310.4	588.4	127.3	131.9	171.5	175.2	147.6	125.4	119.9	119.9
65°	1664.6	1328.0	473.1	116.2	137.4	164.2	158.6	132.8	117.1	116.2	116.2
67.5°	1646.1	1314.1	331.1	104.2	121.7	142.0	142.0	121.7	107.9	112.5	110.7
70°	1557.6	1245.9	218.6	94.1	107.0	128.2	131.9	113.4	100.5	103.3	100.5
72.5°	1373.2	1124.2	143.9	83.0	92.2	113.4	122.7	104.2	92.2	91.3	88.5
73°	1337.2	1078.0	135.6	81.2	89.5	109.7	119.9	102.4	90.4	87.6	85.8
75°	1134.3	899.1	102.4	72.9	79.3	98.7	111.6	95.9	83.0	79.3	77.5
77.5°	826.3	623.4	76.5	61.8	66.4	85.8	98.7	87.6	73.8	69.2	68.2
80°	515.5	339.4	57.2	49.8	52.6	71.9	86.7	78.4	63.6	58.1	57.2
82.5°	202.0	110.7	39.7	36.9	38.7	54.4	72.9	68.2	53.5	48.9	46.1
85°	33.2	37.8	25.8	24.9	24.9	38.7	55.3	52.6	36.0	31.4	27.7
87.5°	9.2	17.5	10.1	9.2	9.2	16.6	30.4	24.0	14.8	12.0	11.1
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)