

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: P594941

Luminaire Tested: **IST-PA1A-727-U-T2U**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594941  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: IST-PA1A-727-U-T2U  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 2700K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3448 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

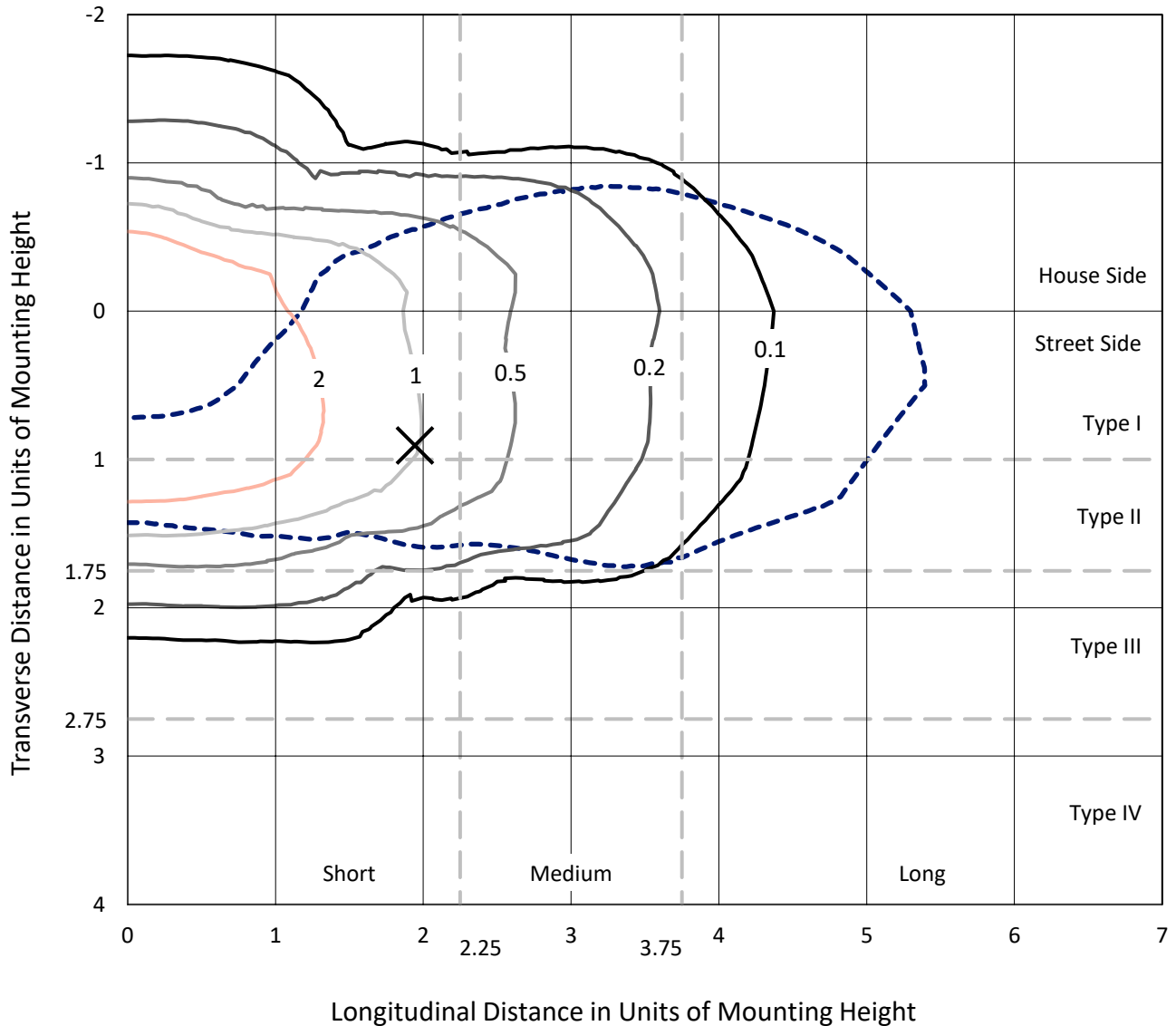
Input Watts (W): 28.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

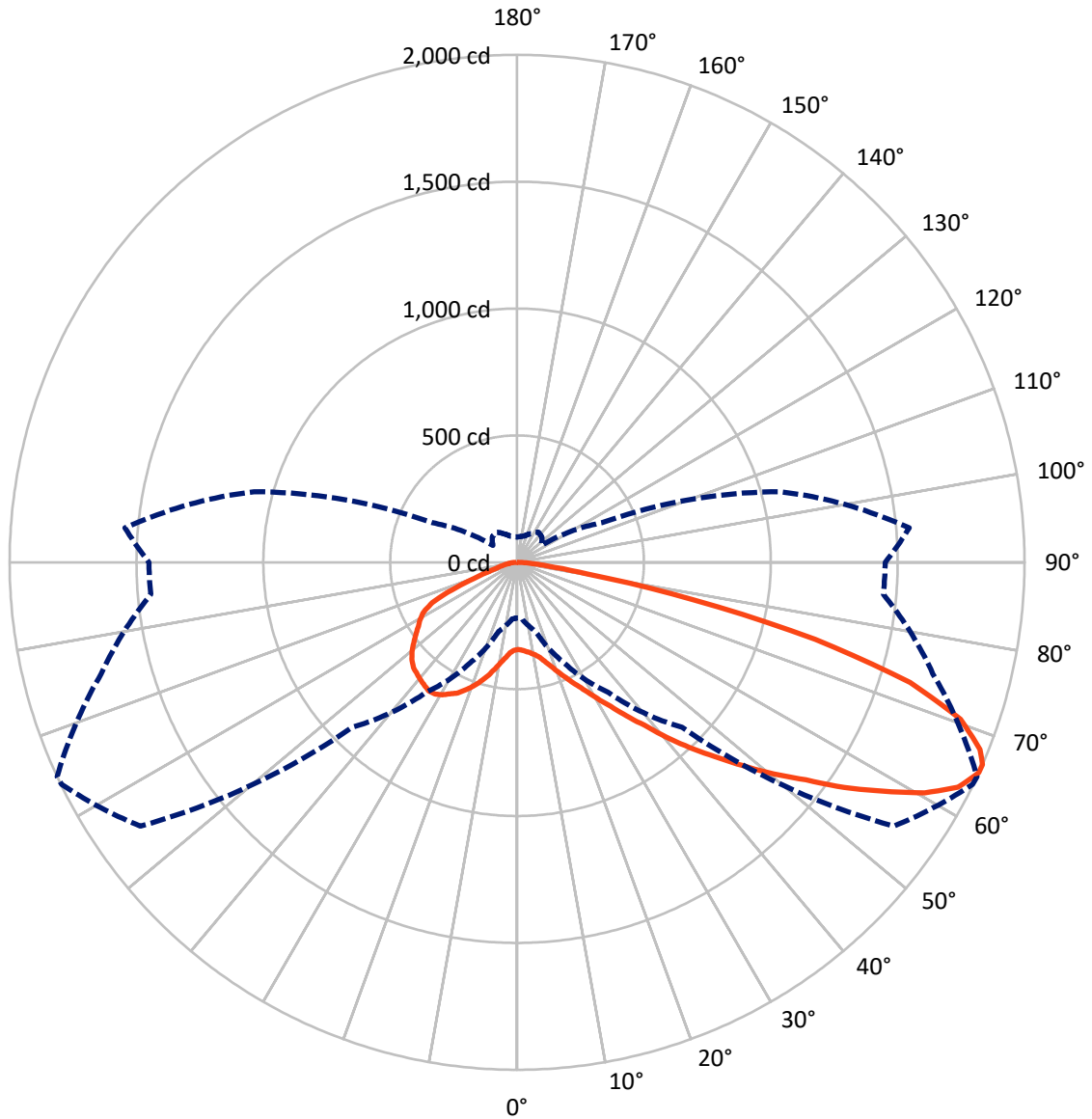
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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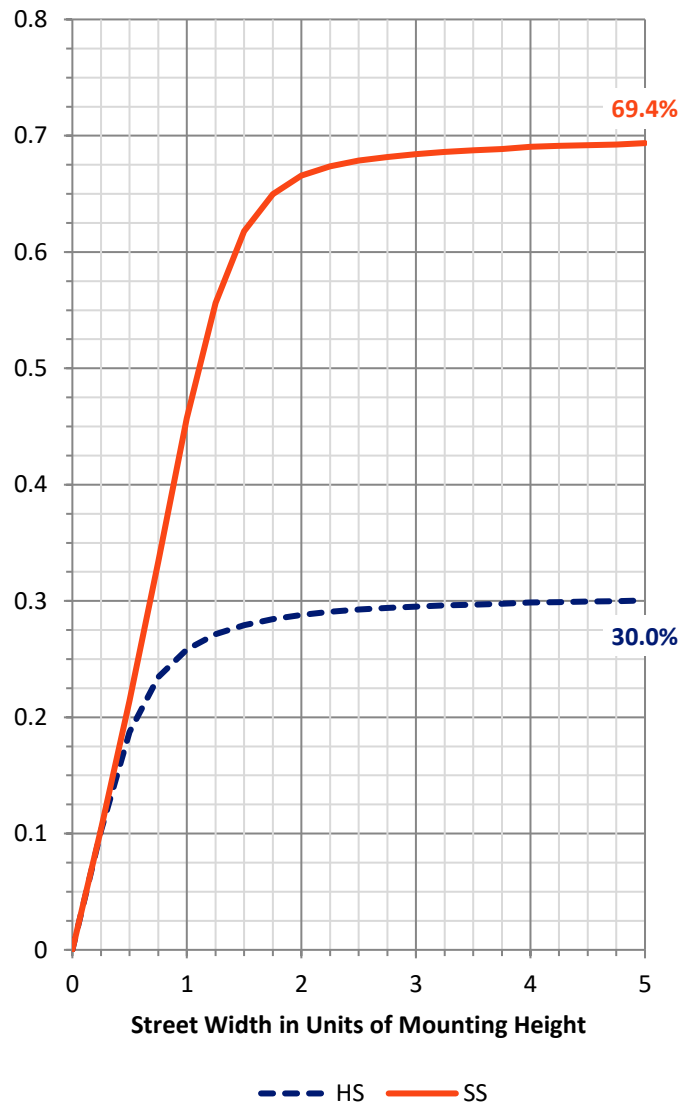
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1046.9	0.0	1046.9
	% Fixture	30.4	0.0	30.4
<b>Street Side</b>	Lumens	2401.1	0.0	2401.1
	% Fixture	69.6	0.0	69.6
<b>Total</b>	Lumens	3448.0	0.0	3448.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.1	1.0
10°-20°	122.2	3.5
20°-30°	239.3	6.9
30°-40°	391.1	11.3
40°-50°	620.7	18.0
50°-60°	798.3	23.2
60°-70°	719.9	20.9
70°-80°	446.5	13.0
80°-90°	74.8	2.2
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°	3448.0	100.0
0°-180°	3448.0	100.0

**Coefficient of Utilization**

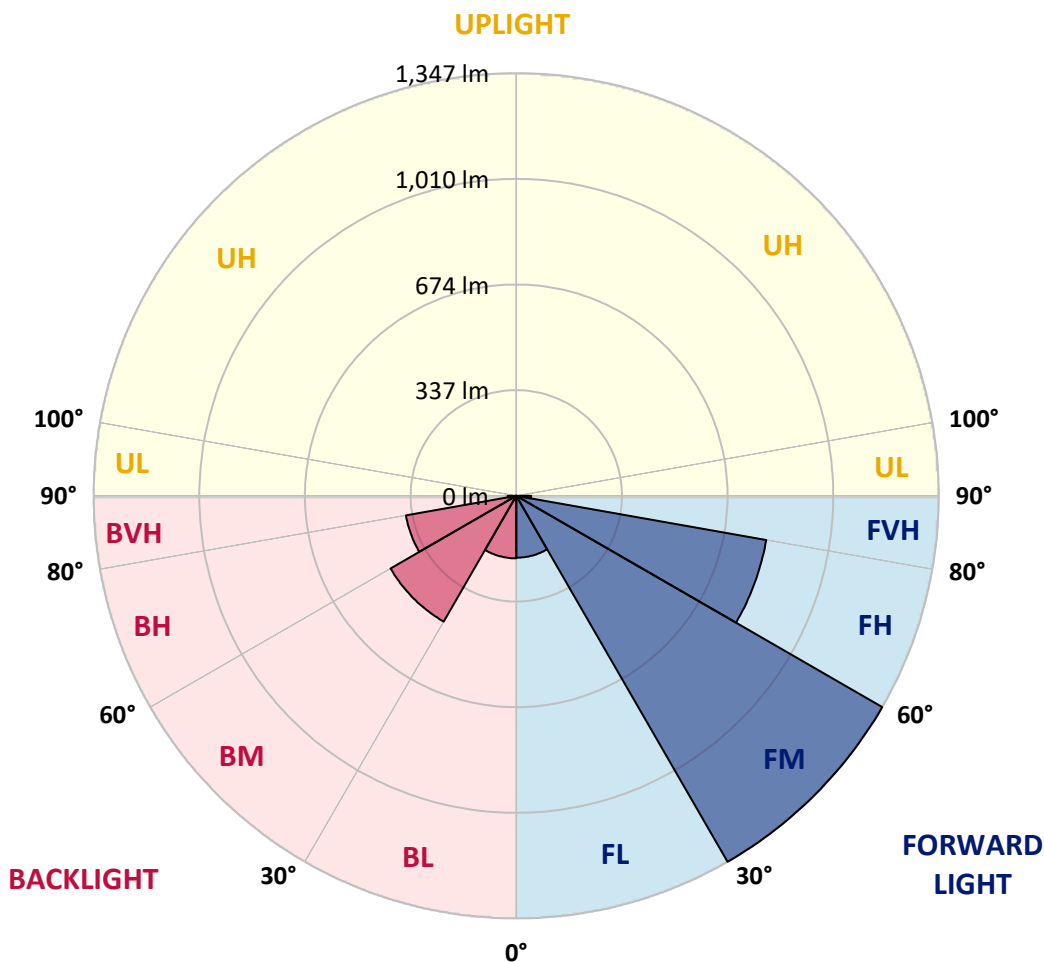


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	197.2	5.7			
FM (30°-60°)	1347.3	39.1			
FH (60°-80°)	809.3	23.5			G1/1800
FVH (80°-90°)	47.3	1.4			G1/100
BL (0°-30°)	199.4	5.8	B1/500		
BM (30°-60°)	462.8	13.4	B1/1000		
BH (60°-80°)	357.2	10.4	B1/500		G1/500
BVH (80°-90°)	27.5	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7
2.5°	344.5	345.4	346.2	344.5	346.2	347.0	345.4	345.4	346.2	344.5	344.5
5°	342.0	342.8	344.5	345.4	348.7	350.4	351.2	351.2	352.0	351.2	352.0
7.5°	335.3	335.3	338.7	340.3	345.4	351.2	354.6	359.6	359.6	360.4	362.9
10°	342.0	342.0	344.5	347.0	351.2	356.2	361.2	367.1	368.8	374.6	378.0
12.5°	352.0	353.7	357.1	360.4	365.4	371.3	375.5	381.3	382.1	388.0	394.7
15°	368.8	370.4	372.1	376.3	383.0	390.5	398.0	402.2	403.9	407.2	412.3
17.5°	393.9	395.5	396.4	398.9	403.9	413.9	424.8	428.1	429.8	429.8	434.0
20°	436.5	435.7	434.0	429.0	429.0	438.2	453.2	459.1	460.8	457.4	454.9
22.5°	485.8	485.0	478.3	472.5	468.3	470.0	485.0	495.0	494.2	487.5	477.5
25°	550.2	551.9	541.0	526.0	513.4	510.1	519.3	529.3	531.0	518.5	501.7
27.5°	627.2	624.7	618.8	594.5	570.3	555.2	560.3	571.1	572.0	558.6	531.8
30°	717.5	713.3	698.2	673.2	635.5	614.6	610.4	619.6	622.1	599.6	561.1
32.5°	817.8	813.6	794.4	755.9	715.0	679.8	666.5	679.0	677.3	651.4	597.9
35°	939.1	938.2	903.1	855.4	803.6	756.8	738.4	738.4	743.4	704.9	644.7
37.5°	1101.3	1108.0	1056.1	981.7	909.0	846.2	815.3	813.6	814.5	772.7	697.4
40°	1247.6	1245.1	1215.0	1145.6	1039.4	959.1	913.1	903.1	905.6	852.1	766.0
42.5°	1332.1	1334.6	1327.1	1297.0	1204.1	1103.0	1024.4	997.6	998.4	931.5	831.2
45°	1384.8	1387.3	1386.4	1401.5	1364.7	1269.4	1157.3	1095.4	1092.1	1021.9	908.1
47.5°	1414.9	1416.5	1427.4	1458.4	1488.5	1466.7	1304.5	1204.1	1197.5	1106.3	985.1
50°	1381.4	1382.3	1425.7	1499.3	1572.9	1639.0	1455.0	1312.0	1310.3	1200.0	1060.3
52.5°	1205.8	1220.9	1317.0	1470.9	1635.6	1761.1	1628.9	1439.1	1424.9	1288.6	1135.6
55°	984.2	990.9	1101.3	1297.0	1623.9	1836.3	1760.2	1576.3	1566.2	1387.3	1209.2
57.5°	768.5	775.2	906.5	1069.5	1445.0	1832.1	1853.0	1724.3	1701.7	1473.4	1282.8
60°	495.9	516.8	669.0	869.7	1169.9	1705.0	1899.9	1866.4	1845.5	1558.7	1345.5
62.5°	337.0	340.3	435.7	644.7	875.5	1385.6	1896.5	1954.2	1950.9	1644.0	1408.2
65°	219.1	224.1	281.8	436.5	626.3	919.8	1812.9	1996.9	2000.2	1696.7	1449.2
66°	185.6	189.0	233.3	367.1	548.6	729.2	1739.3	1993.5	2000.2	1720.9	1461.7
67.5°	161.4	163.9	186.5	270.9	448.2	524.3	1547.8	1949.2	1968.4	1743.5	1477.6
70°	138.8	142.2	163.1	184.8	320.3	306.1	980.0	1835.5	1854.7	1754.4	1487.6
72.5°	114.6	117.1	138.0	167.2	232.5	205.7	432.3	1571.2	1619.7	1714.2	1471.7
75°	90.3	92.0	111.2	139.6	178.1	160.6	188.1	1152.3	1213.3	1511.0	1409.9
77.5°	70.2	71.1	86.1	108.7	163.1	124.6	116.2	561.1	709.9	1167.4	1241.8
80°	48.5	50.2	63.6	81.9	119.6	98.7	77.8	219.1	278.5	775.2	941.6
82.5°	31.8	32.6	43.5	61.9	79.4	94.5	51.0	106.2	117.1	357.1	408.1
85°	21.7	21.7	30.9	38.5	54.4	62.7	33.4	56.0	61.0	135.5	49.3
87.5°	10.9	10.9	15.1	20.1	25.9	24.3	20.1	20.1	20.1	44.3	14.2
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°	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7
2.5°	345.4	345.4	346.2	347.0	347.9	347.9	348.7	348.7	347.9	348.7	349.5
5°	352.9	353.7	355.4	357.9	362.1	366.3	370.4	373.0	375.5	376.3	374.6
7.5°	364.6	366.3	372.1	378.8	385.5	395.5	401.4	404.7	406.4	408.1	406.4
10°	379.6	383.0	391.3	403.1	414.8	427.3	434.0	439.0	439.8	441.5	439.8
12.5°	397.2	403.1	415.6	432.3	446.5	459.1	464.1	460.8	453.2	449.9	449.0
15°	418.1	424.0	441.5	462.4	479.2	485.0	477.5	466.6	458.2	457.4	456.6
17.5°	436.5	444.9	469.1	490.9	506.7	500.9	480.8	474.1	471.6	475.0	474.1
20°	459.9	466.6	490.9	517.6	526.0	503.4	489.2	485.0	482.5	482.5	480.8
22.5°	479.2	484.2	513.4	542.7	537.7	505.1	495.0	486.7	478.3	477.5	475.0
25°	501.7	503.4	534.3	566.1	539.4	506.7	489.2	475.0	466.6	464.1	464.9
27.5°	522.6	526.8	553.6	582.0	535.2	497.5	469.1	450.7	438.2	437.3	437.3
30°	549.4	549.4	573.6	599.6	526.0	474.1	436.5	409.7	399.7	398.9	397.2
32.5°	579.5	574.5	597.9	612.1	505.9	442.4	392.2	362.1	346.2	342.8	340.3
35°	621.3	610.4	627.2	614.6	485.8	397.2	336.2	301.9	290.2	285.1	285.1
37.5°	669.8	653.9	671.5	607.1	454.9	344.5	277.6	251.7	239.2	231.6	234.1
40°	726.7	706.6	716.6	598.7	421.5	286.0	229.1	213.2	198.2	188.1	188.1
42.5°	793.6	760.1	767.6	590.4	373.8	235.0	198.2	187.3	175.6	165.6	168.1
45°	858.0	825.3	817.8	582.0	323.6	200.7	185.6	178.1	167.2	155.5	155.5
47.5°	932.4	890.6	862.1	567.0	274.3	189.8	189.0	178.1	157.2	140.5	138.8
50°	1002.6	964.2	902.3	544.4	246.7	199.0	188.1	162.2	142.2	131.3	130.4
52.5°	1077.0	1036.9	934.9	516.8	232.5	194.8	173.1	148.8	133.8	122.9	120.4
55°	1150.6	1129.7	964.2	490.0	209.9	181.5	160.6	140.5	124.6	114.6	112.9
57.5°	1234.3	1225.9	989.2	463.3	174.8	164.7	151.4	134.6	119.6	112.1	111.2
60°	1307.0	1336.3	1019.3	443.2	148.8	152.2	147.2	133.8	122.9	114.6	114.6
62.5°	1383.9	1442.5	1046.1	417.3	129.6	144.7	148.0	133.0	118.7	111.2	111.2
65°	1450.8	1551.2	1073.7	369.6	116.2	138.8	145.5	123.8	107.0	101.2	99.5
66°	1479.3	1582.1	1082.1	340.3	111.2	134.6	141.3	118.7	102.0	97.0	96.2
67.5°	1512.7	1630.6	1092.1	277.6	103.7	125.4	132.1	111.2	93.7	90.3	88.6
70°	1559.5	1640.6	1086.2	181.5	90.3	107.9	117.9	99.5	83.6	81.1	78.6
72.5°	1564.6	1572.1	1027.7	114.6	78.6	92.8	103.7	89.5	73.6	71.1	69.4
75°	1481.8	1393.1	869.7	81.9	69.4	81.9	91.1	77.8	61.0	57.7	56.0
77.5°	1265.2	1105.5	625.5	61.0	60.2	70.2	76.1	67.7	51.0	48.5	47.7
80°	888.1	750.1	313.6	46.0	47.7	58.5	63.6	56.9	42.6	39.3	37.6
82.5°	359.6	318.6	107.9	34.3	36.0	44.3	54.4	46.8	32.6	28.4	25.1
85°	41.0	69.4	46.8	23.4	24.3	30.1	36.8	28.4	19.2	15.9	13.4
87.5°	8.4	15.1	16.7	9.2	8.4	11.7	16.7	10.0	6.7	2.5	3.3
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)