

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: P594552

Luminaire Tested: **ISS-PA1B-735-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594552  
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: ISS-PA1B-735-U-T2R  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 3500K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5001 lumens  
Efficiency: N/A  
Efficacy: 137.4 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

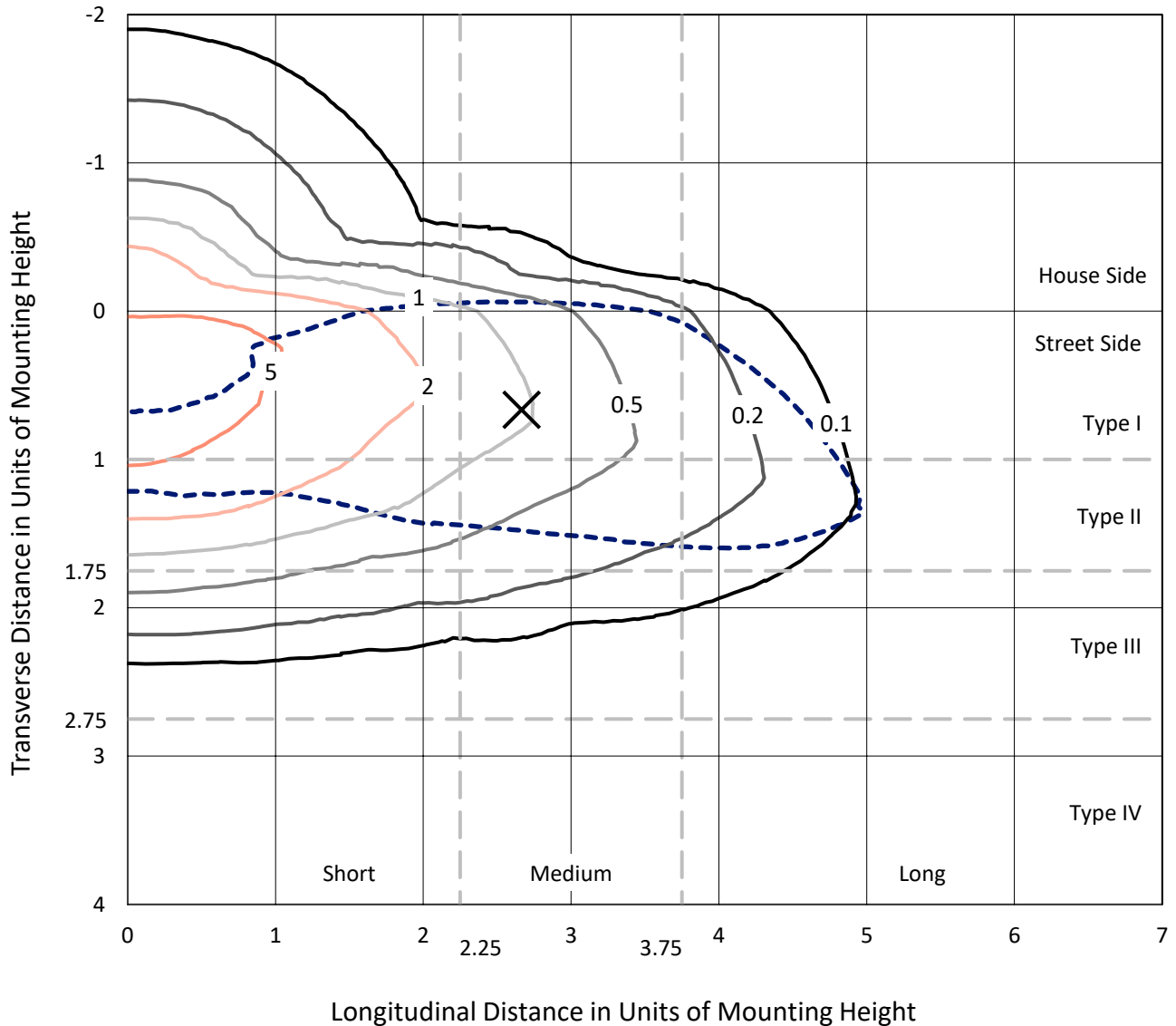
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

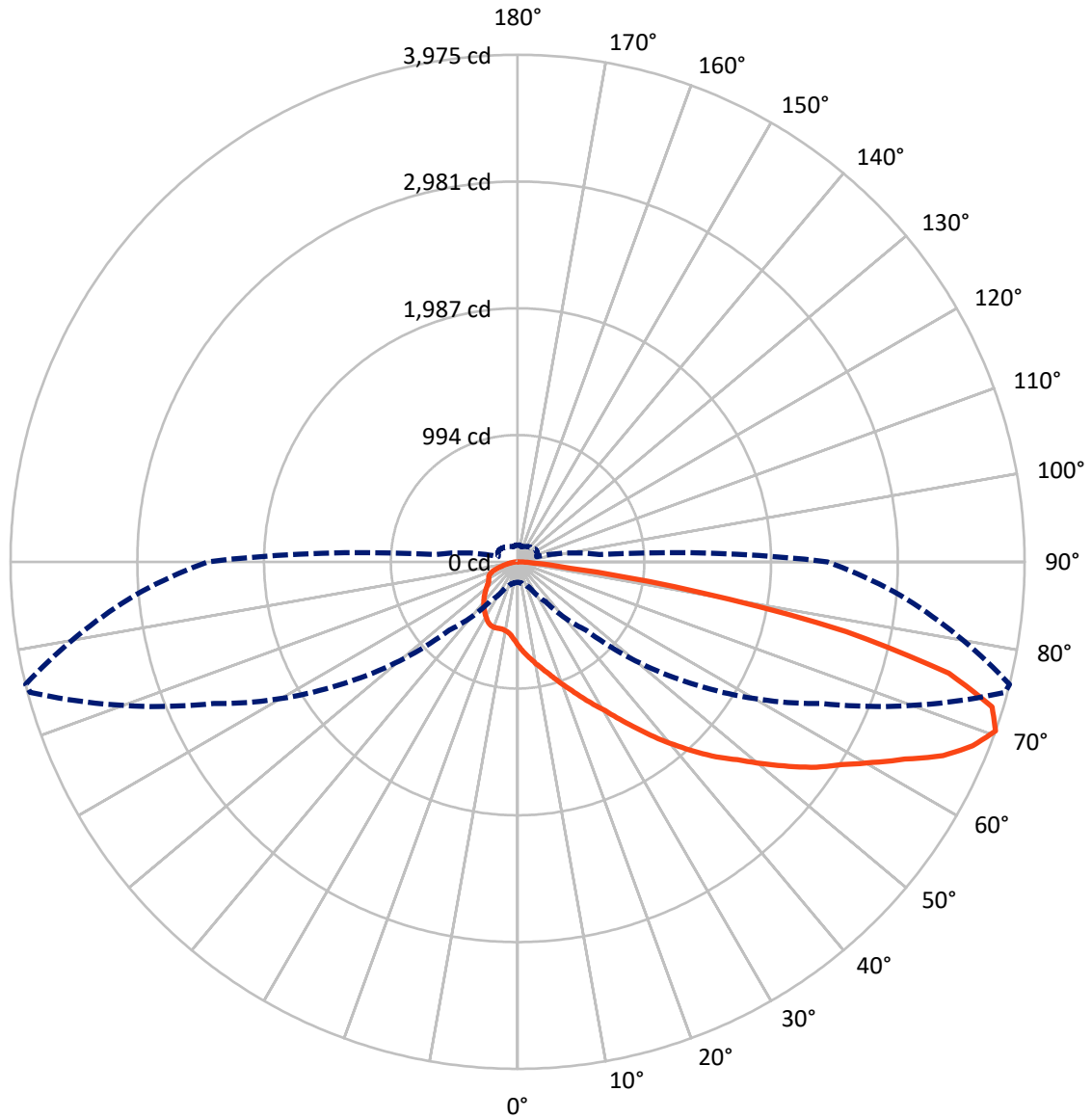
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.9 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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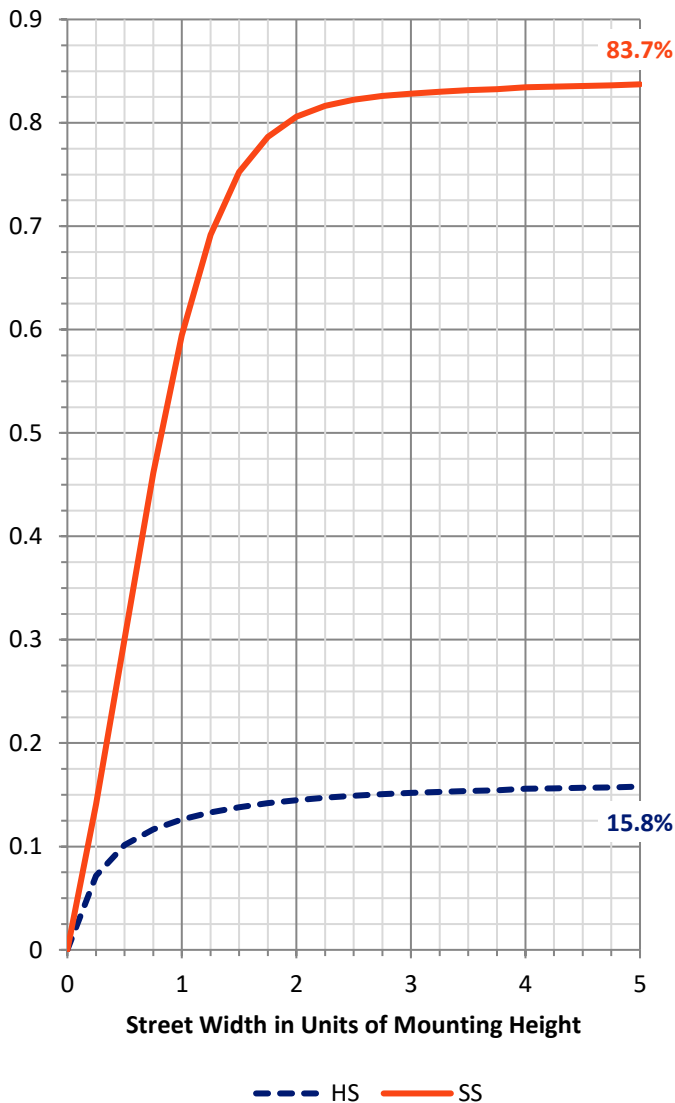
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	802.1	0.0	802.1
	% Fixture	16.0	0.0	16.0
<b>Street Side</b>	Lumens	4198.9	0.0	4198.9
	% Fixture	84.0	0.0	84.0
<b>Total</b>	Lumens	5001.0	0.0	5001.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.9	1.3
10°-20°	211.0	4.2
20°-30°	388.8	7.8
30°-40°	651.5	13.0
40°-50°	925.7	18.5
50°-60°	1068.8	21.4
60°-70°	982.5	19.6
70°-80°	619.5	12.4
80°-90°	89.1	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°	5001.0	100.0
0°-180°	5001.0	100.0

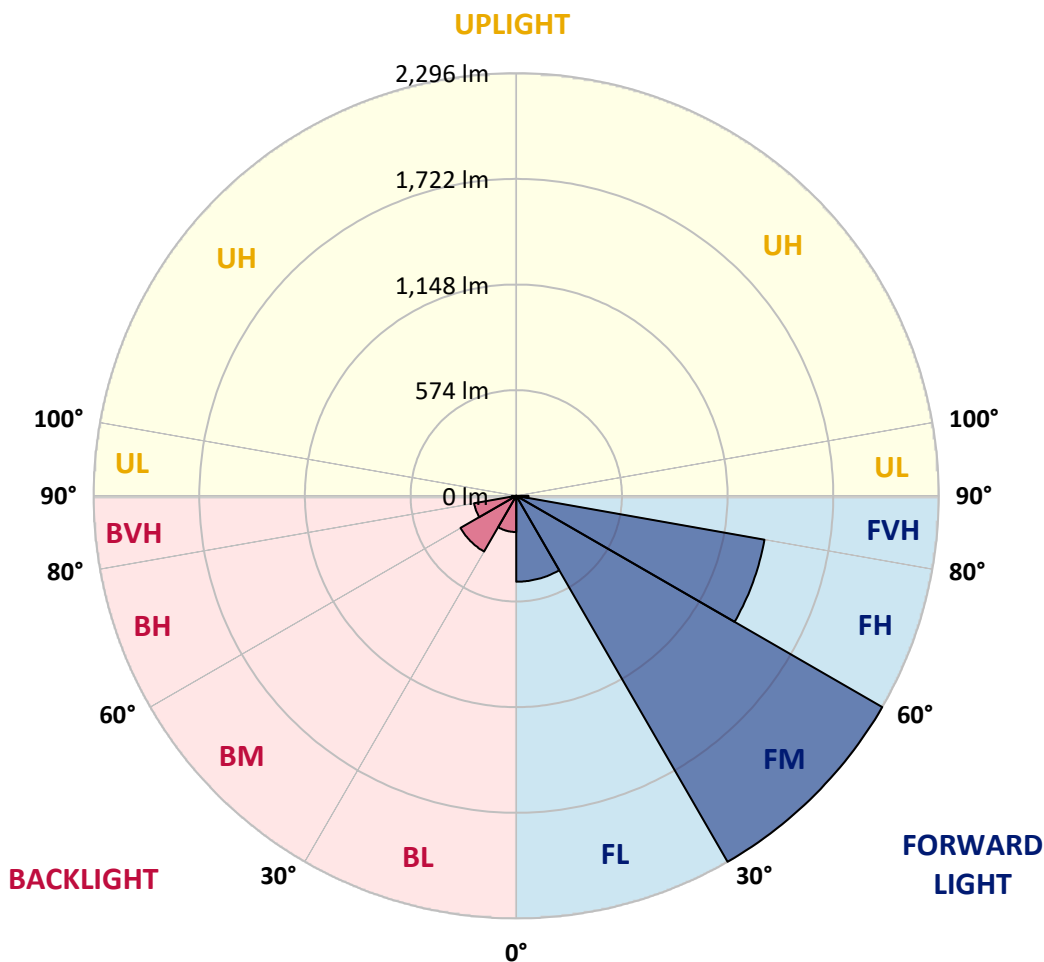


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	466.9	9.3			
FM (30°-60°)	2296.3	45.9			
FH (60°-80°)	1369.6	27.4			G1/1800
FVH (80°-90°)	66.1	1.3			G1/100
BL (0°-30°)	196.9	3.9	B1/500		
BM (30°-60°)	349.7	7.0	B1/1000		
BH (60°-80°)	232.5	4.6	B1/500		G1/500
BVH (80°-90°)	23.1	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°	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1
2.5°	789.7	788.5	784.9	778.8	774.0	759.6	740.3	723.5	698.2	695.8	670.5
5°	860.7	855.9	855.9	849.9	843.8	828.2	804.1	774.0	737.9	735.5	687.4
7.5°	894.4	895.6	893.2	888.4	889.6	876.3	854.7	824.6	775.2	772.8	710.2
10°	942.6	941.4	936.5	932.9	931.7	919.7	900.4	872.7	821.0	816.2	736.7
12.5°	989.5	985.9	987.1	985.9	983.5	971.4	953.4	925.7	861.9	859.5	769.2
15°	1016.0	1014.8	1023.2	1025.6	1035.2	1024.4	1008.8	977.5	919.7	910.1	807.7
17.5°	1032.8	1031.6	1040.1	1059.3	1077.4	1077.4	1072.6	1038.9	975.1	967.8	851.1
20°	1061.7	1066.5	1081.0	1096.6	1123.1	1127.9	1126.7	1112.3	1038.9	1031.6	899.2
22.5°	1119.5	1117.1	1129.1	1153.2	1177.3	1184.5	1185.7	1185.7	1112.3	1099.0	948.6
25°	1243.5	1237.5	1227.8	1225.4	1254.3	1253.1	1249.5	1257.9	1189.3	1179.7	1005.2
27.5°	1479.4	1466.2	1428.9	1354.2	1337.4	1343.4	1325.4	1326.6	1277.2	1265.2	1053.3
30°	1703.3	1697.3	1662.4	1572.1	1477.0	1443.3	1412.0	1398.8	1374.7	1354.2	1105.1
32.5°	1905.6	1906.8	1864.6	1765.9	1668.4	1562.5	1508.3	1480.6	1490.3	1472.2	1176.1
35°	2042.8	2032.0	2005.5	1939.3	1833.3	1732.2	1628.7	1567.3	1619.1	1598.6	1247.1
37.5°	2123.5	2115.0	2093.4	2046.4	1993.4	1895.9	1764.7	1670.8	1772.0	1741.9	1337.4
40°	2164.4	2152.3	2130.7	2111.4	2086.1	2033.2	1917.6	1788.8	1911.6	1885.1	1426.5
42.5°	2169.2	2160.8	2148.7	2139.1	2147.5	2140.3	2066.9	1926.0	2058.5	2029.6	1528.8
45°	2165.6	2171.6	2157.2	2140.3	2157.2	2218.6	2218.6	2063.3	2204.1	2182.4	1626.3
47.5°	2168.0	2162.0	2157.2	2152.3	2154.8	2239.0	2323.3	2192.1	2343.7	2318.5	1740.7
50°	2068.1	2076.5	2117.4	2135.5	2146.3	2243.8	2407.5	2331.7	2517.1	2485.8	1868.3
52.5°	1750.3	1755.1	1941.7	2076.5	2119.8	2224.6	2466.5	2487.0	2688.0	2664.0	2005.5
55°	1348.2	1373.5	1550.5	1880.3	2059.7	2192.1	2484.6	2588.1	2862.6	2843.3	2143.9
57.5°	1109.9	1113.5	1215.8	1510.7	1869.5	2162.0	2502.6	2680.8	3019.1	2997.4	2288.4
60°	920.9	912.5	975.1	1165.3	1552.9	2041.6	2506.3	2754.2	3200.8	3193.6	2437.6
62.5°	676.5	686.2	746.3	907.6	1214.6	1797.2	2488.2	2816.8	3417.5	3407.9	2603.8
65°	415.3	427.3	500.8	648.8	919.7	1426.5	2370.2	2849.3	3645.0	3666.7	2783.1
67.5°	220.3	228.7	272.1	392.4	630.8	1087.0	2086.1	2808.4	3837.6	3847.3	2955.3
70°	161.3	162.5	177.0	221.5	380.4	756.0	1661.2	2630.2	3955.6	3974.9	3011.8
72.5°	140.8	142.0	148.1	158.9	207.0	461.0	1190.5	2319.7	3906.2	3889.4	2916.7
75°	127.6	127.6	132.4	136.0	151.7	255.2	729.5	1898.4	3529.5	3492.1	2487.0
77.5°	109.5	109.5	114.4	119.2	131.2	164.9	381.6	1407.2	2698.9	2635.1	1700.9
80°	87.9	87.9	93.9	99.9	115.6	124.0	186.6	941.4	1543.2	1449.3	774.0
82.5°	60.2	65.0	75.8	83.1	96.3	87.9	109.5	406.9	486.3	421.3	174.5
85°	36.1	38.5	54.2	62.6	72.2	46.9	67.4	156.5	145.7	127.6	39.7
87.5°	3.6	6.0	21.7	25.3	25.3	13.2	28.9	37.3	42.1	43.3	9.6
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°	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1
2.5°	656.1	641.6	613.9	588.6	563.4	546.5	529.7	523.6	515.2	509.2	514.0
5°	662.1	632.0	579.0	534.5	504.4	481.5	470.7	464.7	459.8	458.6	457.4
7.5°	669.3	624.8	553.7	504.4	475.5	464.7	462.2	462.2	462.2	463.5	464.7
10°	684.9	627.2	540.5	487.5	471.9	469.5	470.7	475.5	475.5	476.7	476.7
12.5°	703.0	633.2	530.9	485.1	475.5	476.7	477.9	480.3	480.3	483.9	482.7
15°	729.5	645.2	529.7	487.5	479.1	476.7	476.7	475.5	475.5	475.5	477.9
17.5°	763.2	662.1	530.9	487.5	475.5	470.7	467.1	463.5	458.6	461.0	458.6
20°	796.9	682.5	530.9	481.5	465.9	453.8	443.0	437.0	431.0	429.7	431.0
22.5°	839.0	706.6	524.8	468.3	445.4	428.5	412.9	404.5	394.8	391.2	388.8
25°	875.1	725.9	512.8	449.0	422.5	398.4	378.0	363.5	351.5	349.1	349.1
27.5°	912.5	742.7	494.8	424.9	390.0	363.5	340.7	322.6	310.6	309.4	308.2
30°	947.4	757.2	470.7	398.4	361.1	329.8	303.4	287.7	276.9	270.8	267.2
32.5°	993.1	776.4	447.8	372.0	327.4	296.1	272.1	258.8	244.4	234.7	231.1
35°	1050.9	799.3	422.5	343.1	297.3	266.0	251.6	232.3	214.3	203.4	199.8
37.5°	1115.9	831.8	396.0	313.0	267.2	244.4	235.9	205.8	186.6	183.0	181.8
40°	1196.6	863.1	365.9	281.7	238.3	232.3	217.9	186.6	177.0	175.8	174.5
42.5°	1277.2	896.8	337.1	250.4	215.5	217.9	197.4	181.8	173.3	170.9	169.7
45°	1371.1	930.5	308.2	222.7	197.4	197.4	186.6	177.0	169.7	167.3	167.3
47.5°	1469.8	964.2	276.9	198.6	184.2	177.0	178.2	170.9	166.1	163.7	162.5
50°	1593.8	996.7	248.0	181.8	175.8	166.1	169.7	164.9	162.5	160.1	158.9
52.5°	1710.6	1011.2	221.5	172.1	170.9	161.3	162.5	160.1	158.9	155.3	154.1
55°	1824.9	1007.6	201.0	167.3	164.9	160.1	157.7	156.5	155.3	151.7	150.5
57.5°	1952.5	1002.7	187.8	166.1	161.3	156.5	156.5	152.9	148.1	148.1	148.1
60°	2084.9	987.1	181.8	166.1	160.1	156.5	154.1	150.5	145.7	146.9	145.7
62.5°	2234.2	957.0	178.2	169.7	161.3	155.3	152.9	148.1	142.0	143.2	142.0
65°	2365.4	895.6	175.8	173.3	163.7	156.5	150.5	144.5	137.2	138.4	137.2
67.5°	2454.5	792.1	168.5	175.8	167.3	155.3	148.1	139.6	130.0	134.8	133.6
70°	2429.2	644.0	155.3	170.9	170.9	156.5	144.5	133.6	122.8	132.4	128.8
72.5°	2233.0	483.9	130.0	154.1	168.5	156.5	137.2	124.0	114.4	120.4	113.2
75°	1833.3	328.6	103.5	122.8	157.7	157.7	131.2	114.4	102.3	98.7	96.3
77.5°	1143.6	204.6	80.7	90.3	132.4	156.5	125.2	102.3	85.5	83.1	80.7
80°	452.6	109.5	63.8	65.0	97.5	143.2	116.8	86.7	68.6	66.2	61.4
82.5°	103.5	55.4	44.5	43.3	60.2	116.8	105.9	68.6	53.0	53.0	44.5
85°	31.3	28.9	28.9	27.7	30.1	60.2	81.9	46.9	36.1	25.3	21.7
87.5°	8.4	12.0	10.8	9.6	9.6	8.4	26.5	12.0	7.2	3.6	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

(END OF REPORT)