

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: P594453

Luminaire Tested: **ISS-PA1A-730-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594453
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-PA1A-730-U-T2R
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 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: 3912 lumens
Efficiency: N/A
Efficacy: 135.4 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

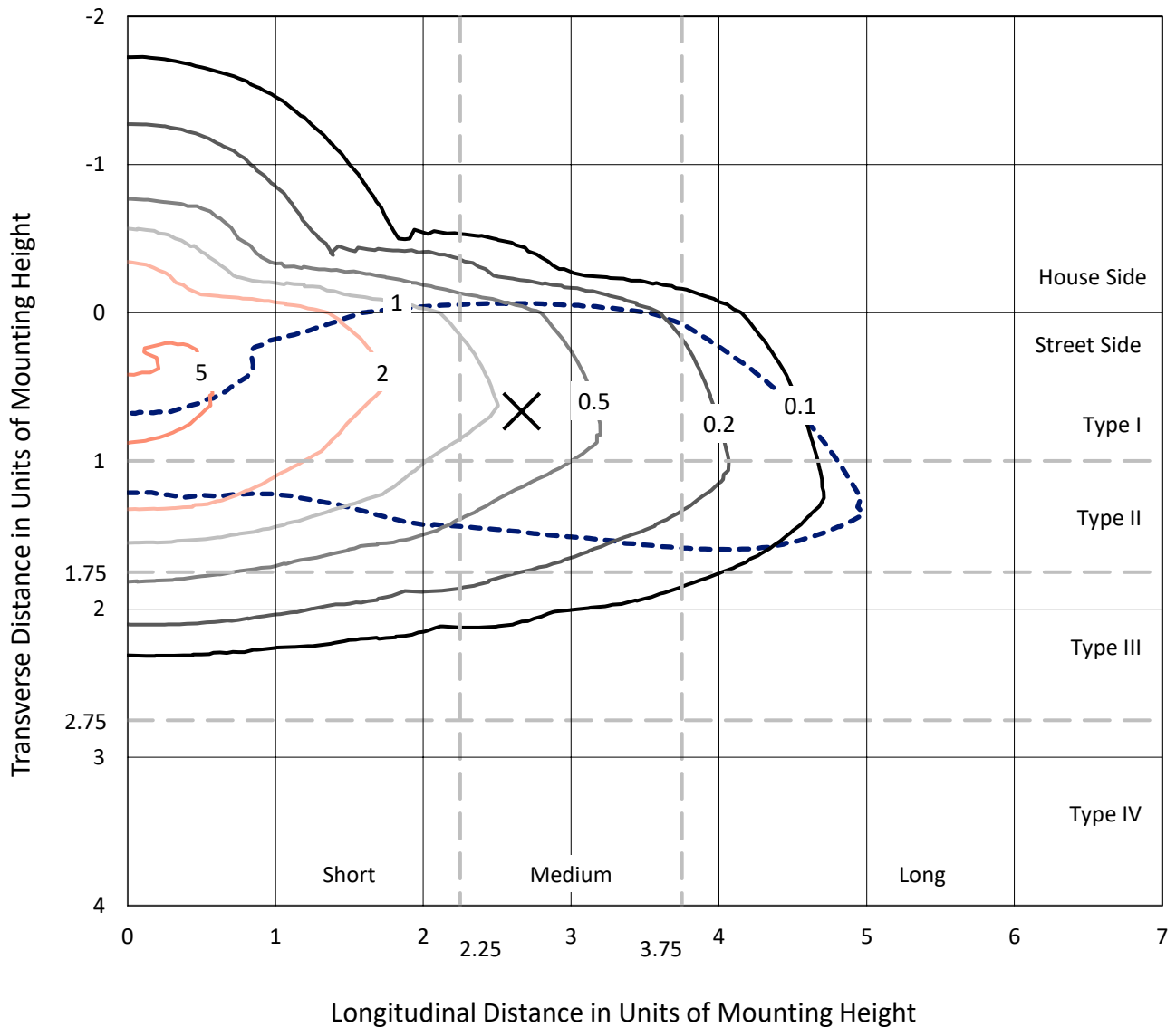
Input Watts (W): 28.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

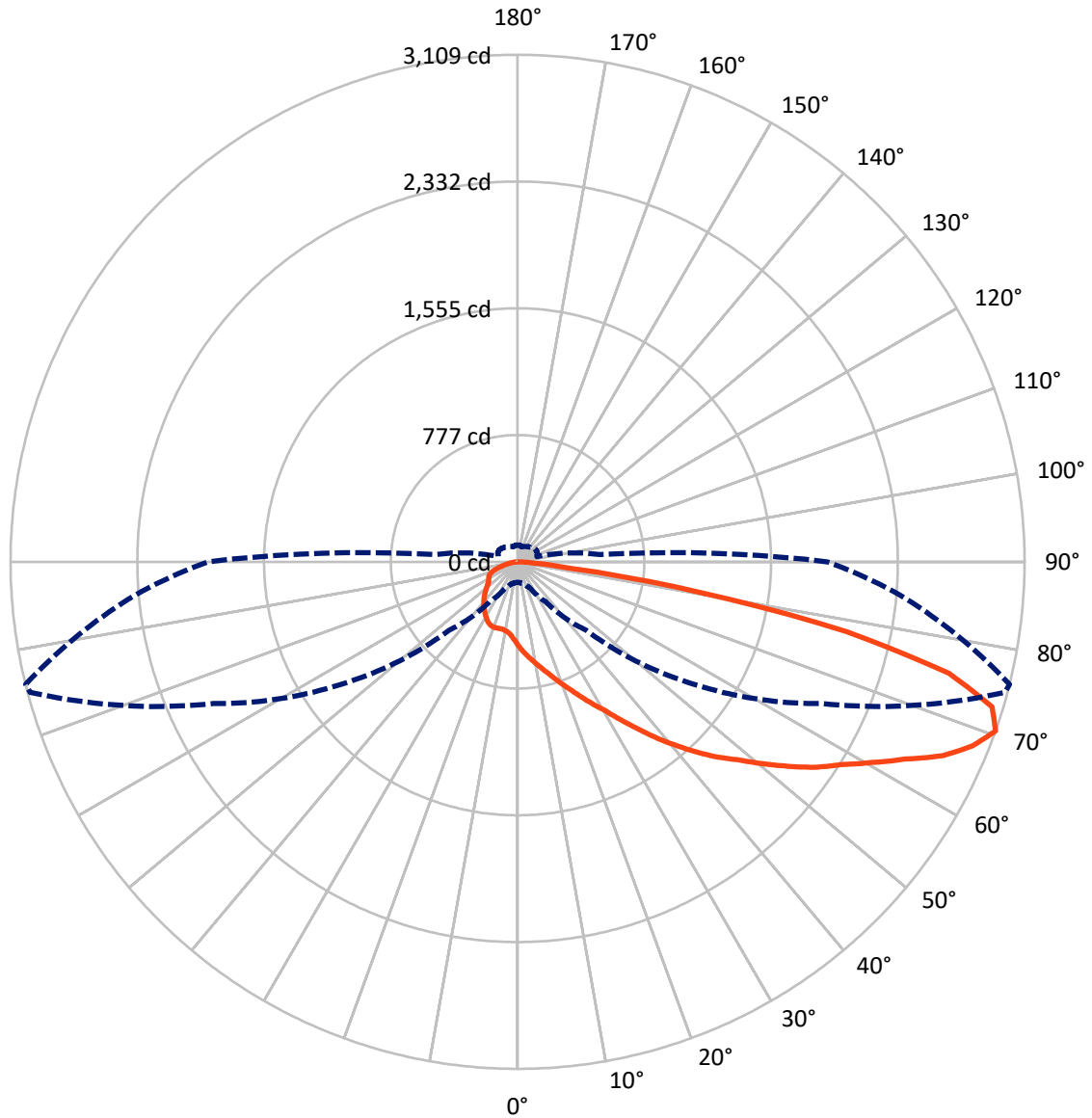
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.2 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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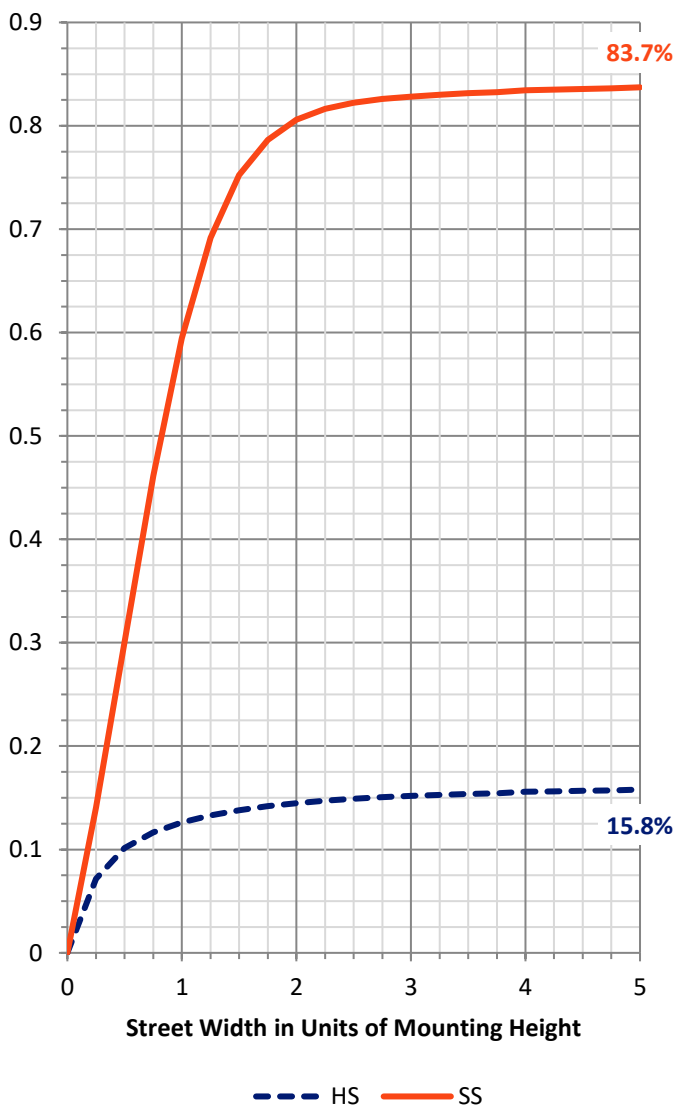
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	627.4	0.0	627.4
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	3284.5	0.0	3284.5
	% Fixture	84.0	0.0	84.0
Total	Lumens	3912.0	0.0	3912.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.0	1.3
10°-20°	165.1	4.2
20°-30°	304.2	7.8
30°-40°	509.6	13.0
40°-50°	724.1	18.5
50°-60°	836.1	21.4
60°-70°	768.6	19.6
70°-80°	484.6	12.4
80°-90°	69.7	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°	3912.0	100.0
0°-180°	3912.0	100.0

Coefficient of Utilization

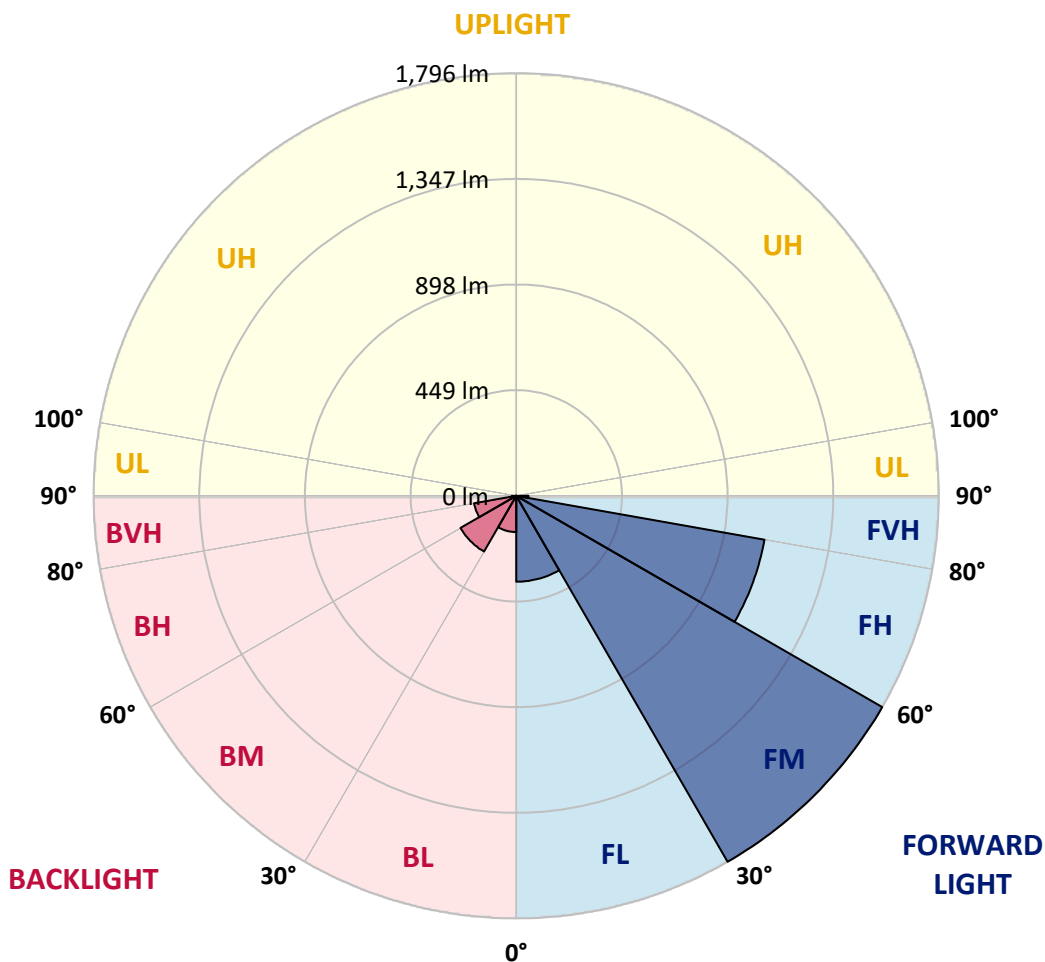


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	365.2	9.3			
FM (30°-60°)	1796.3	45.9			
FH (60°-80°)	1071.3	27.4			G1/1800
FVH (80°-90°)	51.7	1.3			G1/100
BL (0°-30°)	154.0	3.9	B1/500		
BM (30°-60°)	273.5	7.0	B1/1000		
BH (60°-80°)	181.9	4.6	B1/500		G1/500
BVH (80°-90°)	18.0	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°	513.2	513.2	513.2	513.2	513.2	513.2	513.2	513.2	513.2	513.2	513.2
2.5°	617.7	616.8	614.0	609.2	605.5	594.2	579.1	565.9	546.2	544.3	524.5
5°	673.3	669.5	669.5	664.8	660.1	647.9	629.0	605.5	577.2	575.3	537.7
7.5°	699.6	700.6	698.7	694.9	695.9	685.5	668.6	645.0	606.4	604.5	555.6
10°	737.3	736.4	732.6	729.8	728.8	719.4	704.3	682.7	642.2	638.4	576.3
12.5°	774.0	771.2	772.1	771.2	769.3	759.9	745.8	724.1	674.2	672.3	601.7
15°	794.7	793.8	800.4	802.3	809.8	801.3	789.1	764.6	719.4	711.9	631.8
17.5°	807.9	807.0	813.6	828.6	842.8	842.8	839.0	812.6	762.7	757.1	665.7
20°	830.5	834.3	845.6	857.8	878.6	882.3	881.4	870.1	812.6	807.0	703.4
22.5°	875.7	873.8	883.3	902.1	920.9	926.6	927.5	927.5	870.1	859.7	742.0
25°	972.7	968.0	960.5	958.6	981.2	980.3	977.4	984.0	930.3	922.8	786.3
27.5°	1157.3	1146.9	1117.7	1059.3	1046.2	1050.9	1036.8	1037.7	999.1	989.7	823.9
30°	1332.4	1327.7	1300.4	1229.8	1155.4	1129.0	1104.5	1094.2	1075.4	1059.3	864.4
32.5°	1490.6	1491.6	1458.6	1381.4	1305.1	1222.3	1179.9	1158.2	1165.8	1151.6	920.0
35°	1598.0	1589.5	1568.8	1517.0	1434.1	1355.0	1274.0	1226.0	1266.5	1250.5	975.5
37.5°	1661.1	1654.5	1637.5	1600.8	1559.4	1483.1	1380.5	1307.0	1386.1	1362.6	1046.2
40°	1693.1	1683.7	1666.7	1651.6	1631.9	1590.4	1500.0	1399.3	1495.3	1474.6	1115.8
42.5°	1696.8	1690.3	1680.8	1673.3	1679.9	1674.2	1616.8	1506.6	1610.2	1587.6	1195.9
45°	1694.0	1698.7	1687.4	1674.2	1687.4	1735.5	1735.5	1614.0	1724.2	1707.2	1272.2
47.5°	1695.9	1691.2	1687.4	1683.7	1685.5	1751.5	1817.4	1714.7	1833.4	1813.6	1361.6
50°	1617.7	1624.3	1656.4	1670.5	1679.0	1755.2	1883.3	1824.0	1969.0	1944.5	1461.4
52.5°	1369.2	1372.9	1518.9	1624.3	1658.2	1740.2	1929.4	1945.4	2102.7	2083.9	1568.8
55°	1054.6	1074.4	1212.8	1470.8	1611.2	1714.7	1943.6	2024.5	2239.2	2224.2	1677.1
57.5°	868.2	871.0	951.1	1181.8	1462.4	1691.2	1957.7	2097.0	2361.6	2344.7	1790.1
60°	720.4	713.8	762.7	911.5	1214.7	1597.0	1960.5	2154.5	2503.8	2498.2	1906.8
62.5°	529.2	536.7	583.8	710.0	950.1	1405.9	1946.4	2203.4	2673.3	2665.8	2036.8
65°	324.9	334.3	391.7	507.5	719.4	1115.8	1854.1	2228.9	2851.3	2868.2	2177.1
67.5°	172.3	178.9	212.8	307.0	493.4	850.3	1631.9	2196.9	3002.0	3009.5	2311.7
70°	126.2	127.1	138.4	173.3	297.6	591.4	1299.5	2057.5	3094.2	3109.3	2356.0
72.5°	110.2	111.1	115.8	124.3	162.0	360.6	931.3	1814.5	3055.6	3042.5	2281.6
75°	99.8	99.8	103.6	106.4	118.6	199.6	570.6	1485.0	2760.9	2731.7	1945.4
77.5°	85.7	85.7	89.5	93.2	102.6	129.0	298.5	1100.8	2111.2	2061.3	1330.5
80°	68.7	68.7	73.4	78.2	90.4	97.0	146.0	736.4	1207.2	1133.7	605.5
82.5°	47.1	50.8	59.3	65.0	75.3	68.7	85.7	318.3	380.4	329.6	136.5
85°	28.2	30.1	42.4	49.0	56.5	36.7	52.7	122.4	113.9	99.8	31.1
87.5°	2.8	4.7	16.9	19.8	19.8	10.4	22.6	29.2	33.0	33.9	7.5
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°	513.2	513.2	513.2	513.2	513.2	513.2	513.2	513.2	513.2	513.2	513.2
2.5°	513.2	501.9	480.2	460.5	440.7	427.5	414.3	409.6	403.0	398.3	402.1
5°	517.9	494.4	452.9	418.1	394.5	376.7	368.2	363.5	359.7	358.8	357.8
7.5°	523.6	488.7	433.2	394.5	371.9	363.5	361.6	361.6	361.6	362.5	363.5
10°	535.8	490.6	422.8	381.4	369.1	367.2	368.2	371.9	371.9	372.9	372.9
12.5°	549.9	495.3	415.3	379.5	371.9	372.9	373.8	375.7	375.7	378.5	377.6
15°	570.6	504.7	414.3	381.4	374.8	372.9	372.9	371.9	371.9	371.9	373.8
17.5°	597.0	517.9	415.3	381.4	371.9	368.2	365.4	362.5	358.8	360.6	358.8
20°	623.4	533.9	415.3	376.7	364.4	355.0	346.5	341.8	337.1	336.2	337.1
22.5°	656.3	552.7	410.6	366.3	348.4	335.2	323.0	316.4	308.9	306.0	304.2
25°	684.6	567.8	401.1	351.2	330.5	311.7	295.7	284.4	275.0	273.1	273.1
27.5°	713.8	581.0	387.0	332.4	305.1	284.4	266.5	252.4	242.9	242.0	241.1
30°	741.1	592.3	368.2	311.7	282.5	258.0	237.3	225.1	216.6	211.9	209.0
32.5°	776.9	607.4	350.3	291.0	256.1	231.6	212.8	202.5	191.2	183.6	180.8
35°	822.1	625.3	330.5	268.4	232.6	208.1	196.8	181.7	167.6	159.1	156.3
37.5°	872.9	650.7	309.8	244.8	209.0	191.2	184.6	161.0	146.0	143.1	142.2
40°	936.0	675.2	286.3	220.3	186.4	181.7	170.4	146.0	138.4	137.5	136.5
42.5°	999.1	701.5	263.7	195.9	168.6	170.4	154.4	142.2	135.6	133.7	132.8
45°	1072.5	727.9	241.1	174.2	154.4	154.4	146.0	138.4	132.8	130.9	130.9
47.5°	1149.7	754.3	216.6	155.4	144.1	138.4	139.4	133.7	129.9	128.1	127.1
50°	1246.7	779.7	194.0	142.2	137.5	129.9	132.8	129.0	127.1	125.2	124.3
52.5°	1338.1	791.0	173.3	134.7	133.7	126.2	127.1	125.2	124.3	121.5	120.5
55°	1427.5	788.2	157.3	130.9	129.0	125.2	123.4	122.4	121.5	118.6	117.7
57.5°	1527.3	784.4	146.9	129.9	126.2	122.4	122.4	119.6	115.8	115.8	115.8
60°	1630.9	772.1	142.2	129.9	125.2	122.4	120.5	117.7	113.9	114.9	113.9
62.5°	1747.7	748.6	139.4	132.8	126.2	121.5	119.6	115.8	111.1	112.1	111.1
65°	1850.3	700.6	137.5	135.6	128.1	122.4	117.7	113.0	107.3	108.3	107.3
67.5°	1920.0	619.6	131.8	137.5	130.9	121.5	115.8	109.2	101.7	105.5	104.5
70°	1900.2	503.8	121.5	133.7	133.7	122.4	113.0	104.5	96.0	103.6	100.8
72.5°	1746.7	378.5	101.7	120.5	131.8	122.4	107.3	97.0	89.5	94.2	88.5
75°	1434.1	257.1	81.0	96.0	123.4	123.4	102.6	89.5	80.0	77.2	75.3
77.5°	894.6	160.1	63.1	70.6	103.6	122.4	97.9	80.0	66.9	65.0	63.1
80°	354.1	85.7	49.9	50.8	76.3	112.1	91.3	67.8	53.7	51.8	48.0
82.5°	81.0	43.3	34.8	33.9	47.1	91.3	82.9	53.7	41.4	41.4	34.8
85°	24.5	22.6	22.6	21.7	23.5	47.1	64.0	36.7	28.2	19.8	16.9
87.5°	6.6	9.4	8.5	7.5	7.5	6.6	20.7	9.4	5.6	2.8	1.9
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)