

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: P594462

Luminaire Tested: **ISS-PA1A-735-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594462
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-735-U-T2R
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3500K, 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: 4002 lumens
Efficiency: N/A
Efficacy: 138.5 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

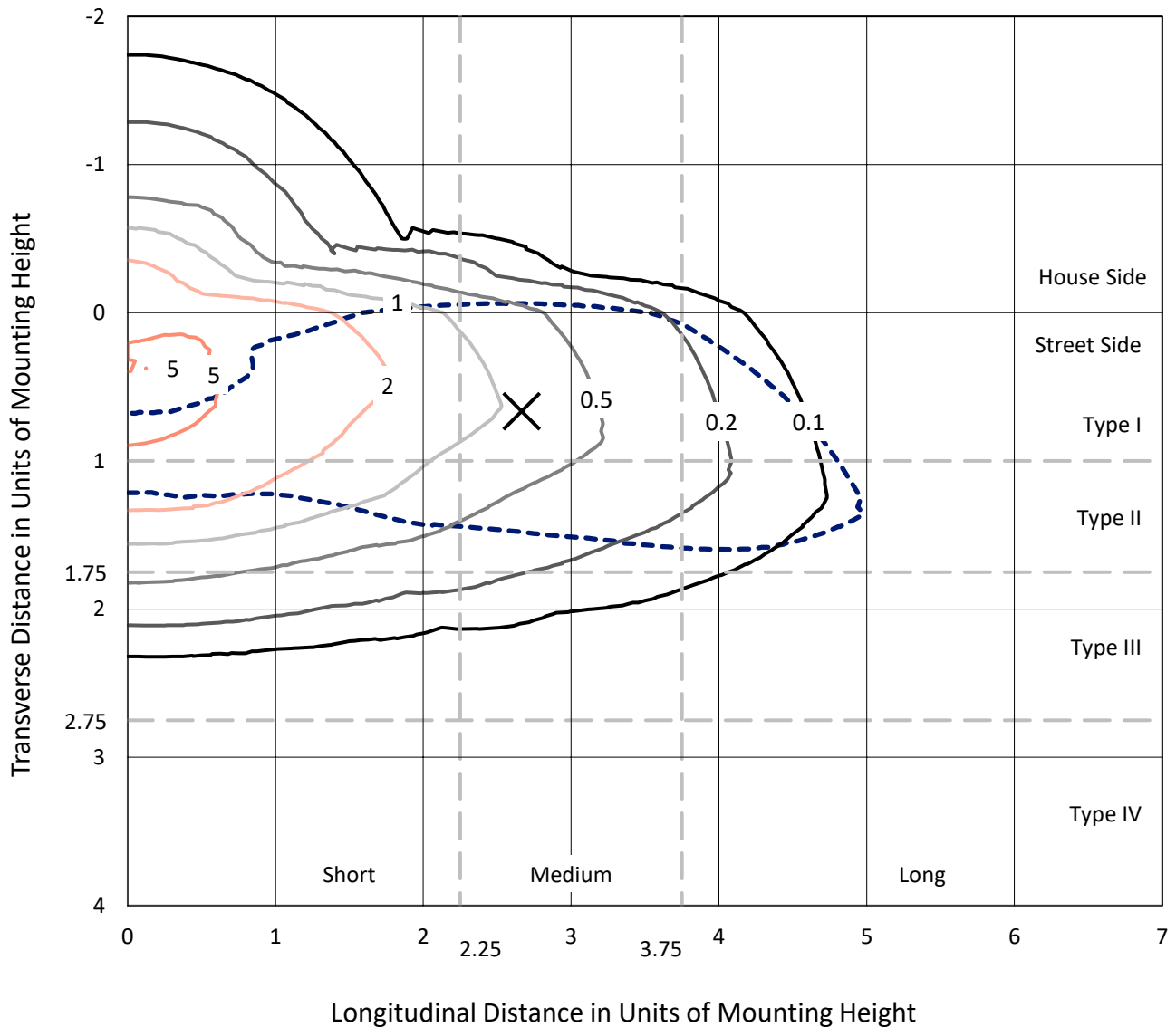
Input Watts (W): 28.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

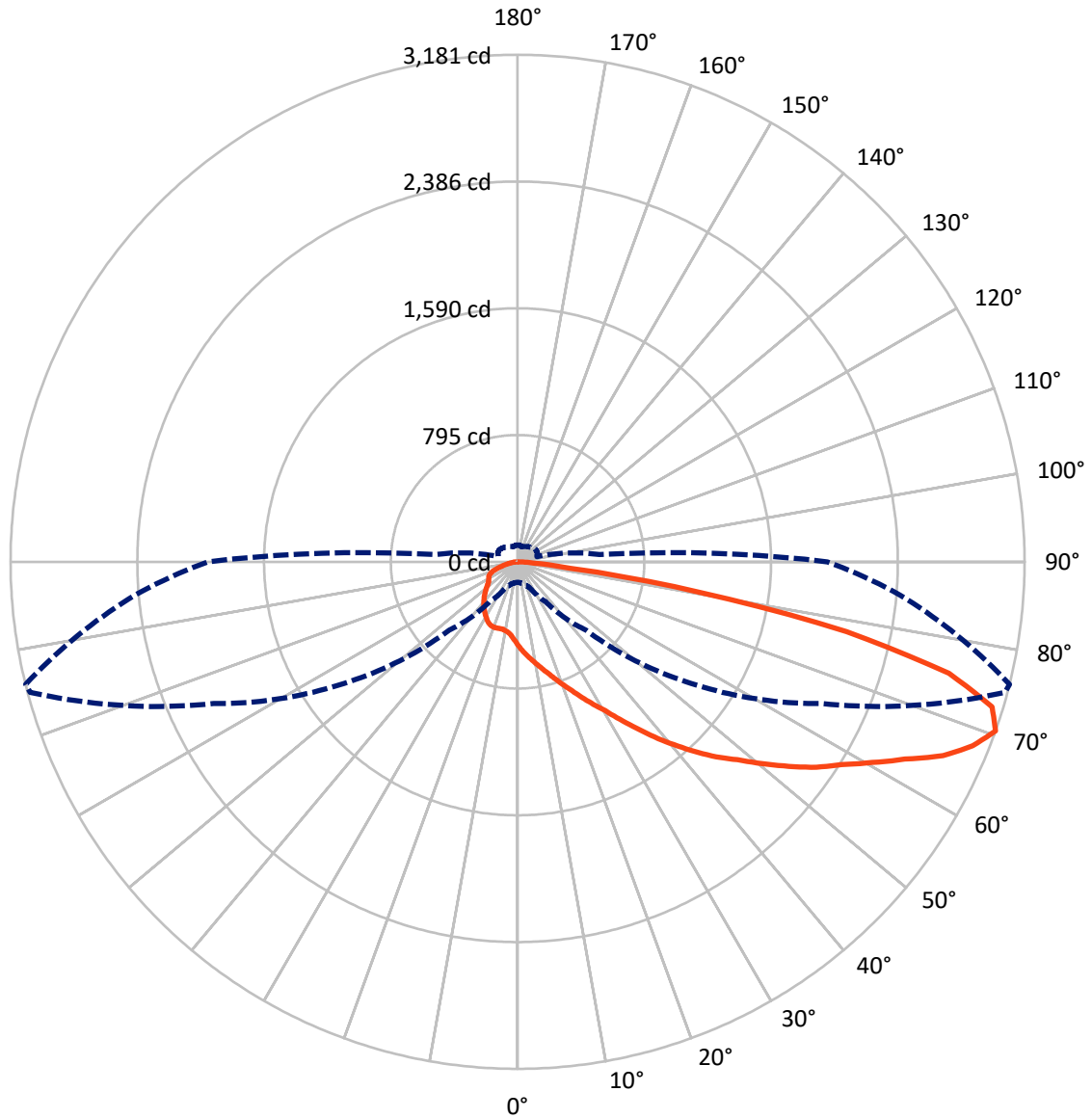
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.3 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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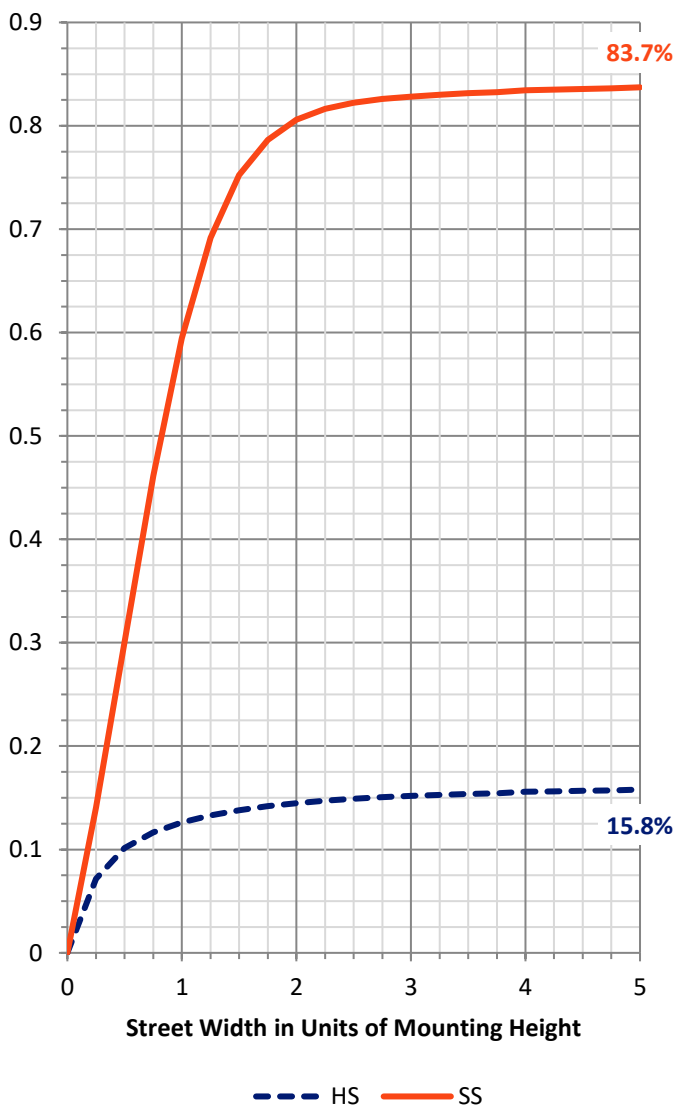
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	641.9	0.0	641.9
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	3360.1	0.0	3360.1
	% Fixture	84.0	0.0	84.0
Total	Lumens	4002.0	0.0	4002.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.2	1.3
10°-20°	168.9	4.2
20°-30°	311.2	7.8
30°-40°	521.4	13.0
40°-50°	740.8	18.5
50°-60°	855.3	21.4
60°-70°	786.3	19.6
70°-80°	495.8	12.4
80°-90°	71.3	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°	4002.0	100.0
0°-180°	4002.0	100.0

Coefficient of Utilization

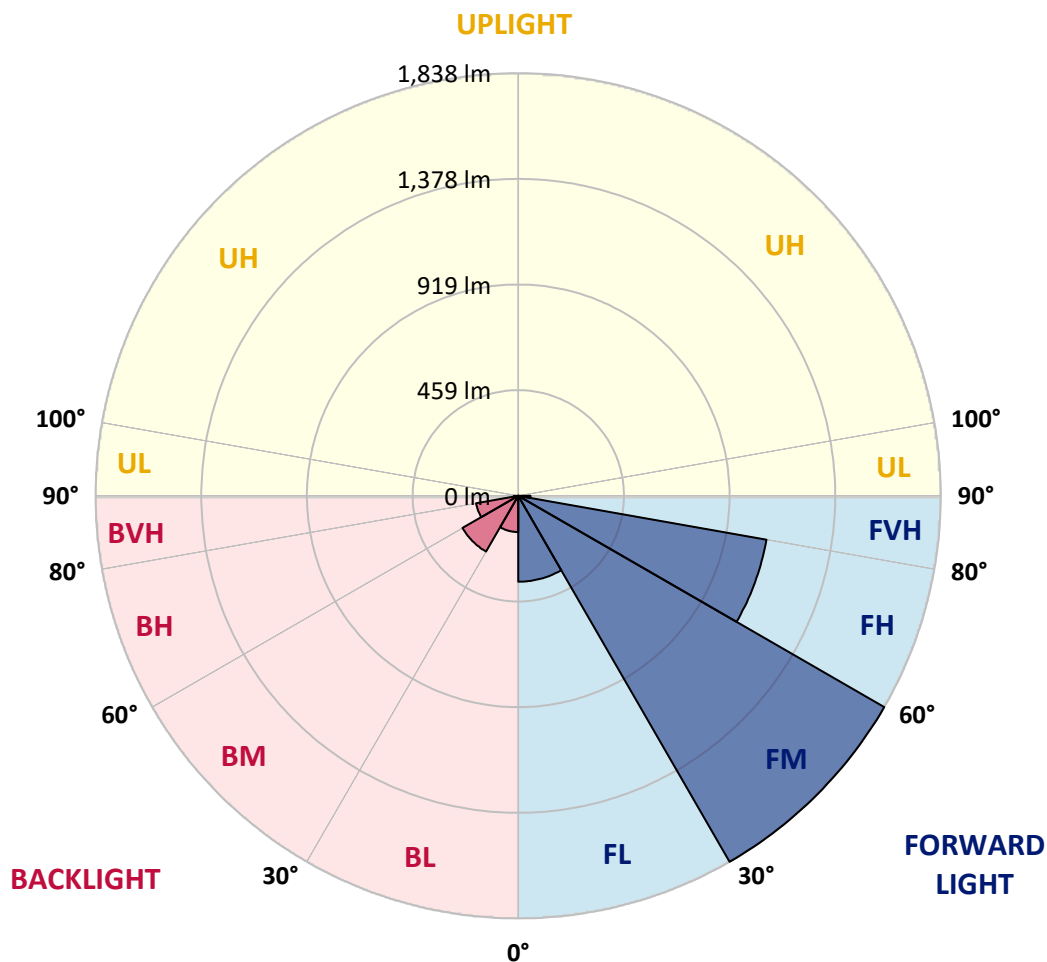


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	373.6	9.3			
FM (30°-60°)	1837.6	45.9			
FH (60°-80°)	1096.0	27.4			G1/1800
FVH (80°-90°)	52.9	1.3			G1/100
BL (0°-30°)	157.6	3.9	B1/500		
BM (30°-60°)	279.8	7.0	B1/1000		
BH (60°-80°)	186.0	4.6	B1/500		G1/500
BVH (80°-90°)	18.4	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°	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0
2.5°	631.9	631.0	628.1	623.3	619.4	607.8	592.4	578.9	558.7	556.8	536.6
5°	688.8	684.9	684.9	680.1	675.3	662.8	643.5	619.4	590.5	588.6	550.0
7.5°	715.7	716.7	714.8	710.9	711.9	701.3	683.9	659.9	620.4	618.4	568.4
10°	754.3	753.3	749.5	746.6	745.6	736.0	720.6	698.4	657.0	653.1	589.5
12.5°	791.8	788.9	789.9	788.9	787.0	777.4	762.9	740.8	689.7	687.8	615.6
15°	813.0	812.1	818.8	820.7	828.4	819.8	807.3	782.2	736.0	728.3	646.4
17.5°	826.5	825.6	832.3	847.7	862.2	862.2	858.3	831.3	780.3	774.5	681.1
20°	849.6	853.5	865.1	877.6	898.8	902.6	901.7	890.1	831.3	825.6	719.6
22.5°	895.9	893.9	903.6	922.8	942.1	947.9	948.9	948.9	890.1	879.5	759.1
25°	995.1	990.3	982.6	980.6	1003.8	1002.8	999.9	1006.7	951.7	944.0	804.4
27.5°	1183.9	1173.3	1143.4	1083.7	1070.2	1075.1	1060.6	1061.6	1022.1	1012.4	842.9
30°	1363.1	1358.3	1330.3	1258.1	1182.0	1155.0	1130.0	1119.4	1100.1	1083.7	884.3
32.5°	1524.9	1525.9	1492.2	1413.2	1335.1	1250.4	1207.0	1184.9	1192.6	1178.1	941.2
35°	1634.7	1626.1	1604.9	1551.9	1467.1	1386.2	1303.4	1254.2	1295.6	1279.3	998.0
37.5°	1699.3	1692.5	1675.2	1637.6	1595.2	1517.2	1412.2	1337.1	1418.0	1393.9	1070.2
40°	1732.0	1722.4	1705.1	1689.6	1669.4	1627.0	1534.5	1431.5	1529.7	1508.5	1141.5
42.5°	1735.9	1729.1	1719.5	1711.8	1718.5	1712.8	1654.0	1541.3	1647.3	1624.1	1223.4
45°	1733.0	1737.8	1726.2	1712.8	1726.2	1775.4	1775.4	1651.1	1763.8	1746.5	1301.4
47.5°	1734.9	1730.1	1726.2	1722.4	1724.3	1791.8	1859.2	1754.2	1875.6	1855.3	1392.9
50°	1655.0	1661.7	1694.5	1708.9	1717.6	1795.6	1926.6	1865.9	2014.3	1989.2	1495.1
52.5°	1400.6	1404.5	1553.8	1661.7	1696.4	1780.2	1973.8	1990.2	2151.1	2131.8	1604.9
55°	1078.9	1099.1	1240.7	1504.7	1648.2	1754.2	1988.3	2071.1	2290.7	2275.3	1715.7
57.5°	888.2	891.1	972.9	1209.0	1496.0	1730.1	2002.7	2145.3	2416.0	2398.6	1831.2
60°	736.9	730.2	780.3	932.5	1242.7	1633.8	2005.6	2204.0	2561.4	2555.7	1950.7
62.5°	541.4	549.1	597.3	726.3	972.0	1438.2	1991.2	2254.1	2734.8	2727.1	2083.6
65°	332.3	342.0	400.7	519.2	736.0	1141.5	1896.8	2280.1	2916.9	2934.2	2227.2
67.5°	176.3	183.0	217.7	314.0	504.8	869.9	1669.4	2247.4	3071.0	3078.7	2364.9
70°	129.1	130.0	141.6	177.2	304.4	605.0	1329.4	2104.8	3165.4	3180.8	2410.2
72.5°	112.7	113.7	118.5	127.2	165.7	368.9	952.7	1856.3	3125.9	3112.4	2334.1
75°	102.1	102.1	106.0	108.9	121.4	204.2	583.8	1519.1	2824.4	2794.6	1990.2
77.5°	87.7	87.7	91.5	95.4	105.0	132.0	305.4	1126.1	2159.7	2108.7	1361.2
80°	70.3	70.3	75.1	80.0	92.5	99.2	149.3	753.3	1235.0	1159.8	619.4
82.5°	48.2	52.0	60.7	66.5	77.1	70.3	87.7	325.6	389.2	337.2	139.7
85°	28.9	30.8	43.3	50.1	57.8	37.6	53.9	125.2	116.6	102.1	31.8
87.5°	2.9	4.8	17.3	20.2	20.2	10.6	23.1	29.9	33.7	34.7	7.7
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°	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0
2.5°	525.0	513.4	491.3	471.1	450.8	437.3	423.9	419.0	412.3	407.5	411.3
5°	529.8	505.7	463.4	427.7	403.6	385.3	376.7	371.8	368.0	367.0	366.1
7.5°	535.6	500.0	443.1	403.6	380.5	371.8	369.9	369.9	369.9	370.9	371.8
10°	548.1	501.9	432.5	390.1	377.6	375.7	376.7	380.5	380.5	381.5	381.5
12.5°	562.6	506.7	424.8	388.2	380.5	381.5	382.4	384.4	384.4	387.2	386.3
15°	583.8	516.3	423.9	390.1	383.4	381.5	381.5	380.5	380.5	380.5	382.4
17.5°	610.7	529.8	424.8	390.1	380.5	376.7	373.8	370.9	367.0	368.9	367.0
20°	637.7	546.2	424.8	385.3	372.8	363.2	354.5	349.7	344.9	343.9	344.9
22.5°	671.4	565.5	420.0	374.7	356.4	342.9	330.4	323.7	316.0	313.1	311.1
25°	700.3	580.9	410.4	359.3	338.1	318.9	302.5	290.9	281.3	279.4	279.4
27.5°	730.2	594.4	395.9	340.0	312.1	290.9	272.6	258.2	248.5	247.6	246.6
30°	758.1	605.9	376.7	318.9	289.0	263.9	242.8	230.2	221.6	216.7	213.9
32.5°	794.7	621.3	358.4	297.7	262.0	237.0	217.7	207.1	195.6	187.8	185.0
35°	841.0	639.6	338.1	274.5	237.9	212.9	201.3	185.9	171.5	162.8	159.9
37.5°	893.0	665.6	316.9	250.5	213.9	195.6	188.8	164.7	149.3	146.4	145.5
40°	957.5	690.7	292.8	225.4	190.7	185.9	174.4	149.3	141.6	140.6	139.7
42.5°	1022.1	717.7	269.7	200.4	172.4	174.4	158.0	145.5	138.7	136.8	135.8
45°	1097.2	744.6	246.6	178.2	158.0	158.0	149.3	141.6	135.8	133.9	133.9
47.5°	1176.2	771.6	221.6	158.9	147.4	141.6	142.6	136.8	132.9	131.0	130.0
50°	1275.4	797.6	198.4	145.5	140.6	132.9	135.8	132.0	130.0	128.1	127.2
52.5°	1368.9	809.2	177.2	137.8	136.8	129.1	130.0	128.1	127.2	124.3	123.3
55°	1460.4	806.3	160.9	133.9	132.0	128.1	126.2	125.2	124.3	121.4	120.4
57.5°	1562.5	802.4	150.3	132.9	129.1	125.2	125.2	122.3	118.5	118.5	118.5
60°	1668.4	789.9	145.5	132.9	128.1	125.2	123.3	120.4	116.6	117.5	116.6
62.5°	1787.9	765.8	142.6	135.8	129.1	124.3	122.3	118.5	113.7	114.6	113.7
65°	1892.9	716.7	140.6	138.7	131.0	125.2	120.4	115.6	109.8	110.8	109.8
67.5°	1964.2	633.9	134.9	140.6	133.9	124.3	118.5	111.7	104.0	107.9	106.9
70°	1944.0	515.4	124.3	136.8	136.8	125.2	115.6	106.9	98.3	106.0	103.1
72.5°	1786.9	387.2	104.0	123.3	134.9	125.2	109.8	99.2	91.5	96.3	90.6
75°	1467.1	263.0	82.8	98.3	126.2	126.2	105.0	91.5	81.9	79.0	77.1
77.5°	915.1	163.8	64.5	72.2	106.0	125.2	100.2	81.9	68.4	66.5	64.5
80°	362.2	87.7	51.1	52.0	78.0	114.6	93.4	69.4	54.9	53.0	49.1
82.5°	82.8	44.3	35.6	34.7	48.2	93.4	84.8	54.9	42.4	42.4	35.6
85°	25.0	23.1	23.1	22.2	24.1	48.2	65.5	37.6	28.9	20.2	17.3
87.5°	6.7	9.6	8.7	7.7	7.7	6.7	21.2	9.6	5.8	2.9	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)