

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: P594507

Luminaire Tested: **ISS-PA1A-830-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594507
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-830-U-T2R
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 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: 3414 lumens
Efficiency: N/A
Efficacy: 118.1 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

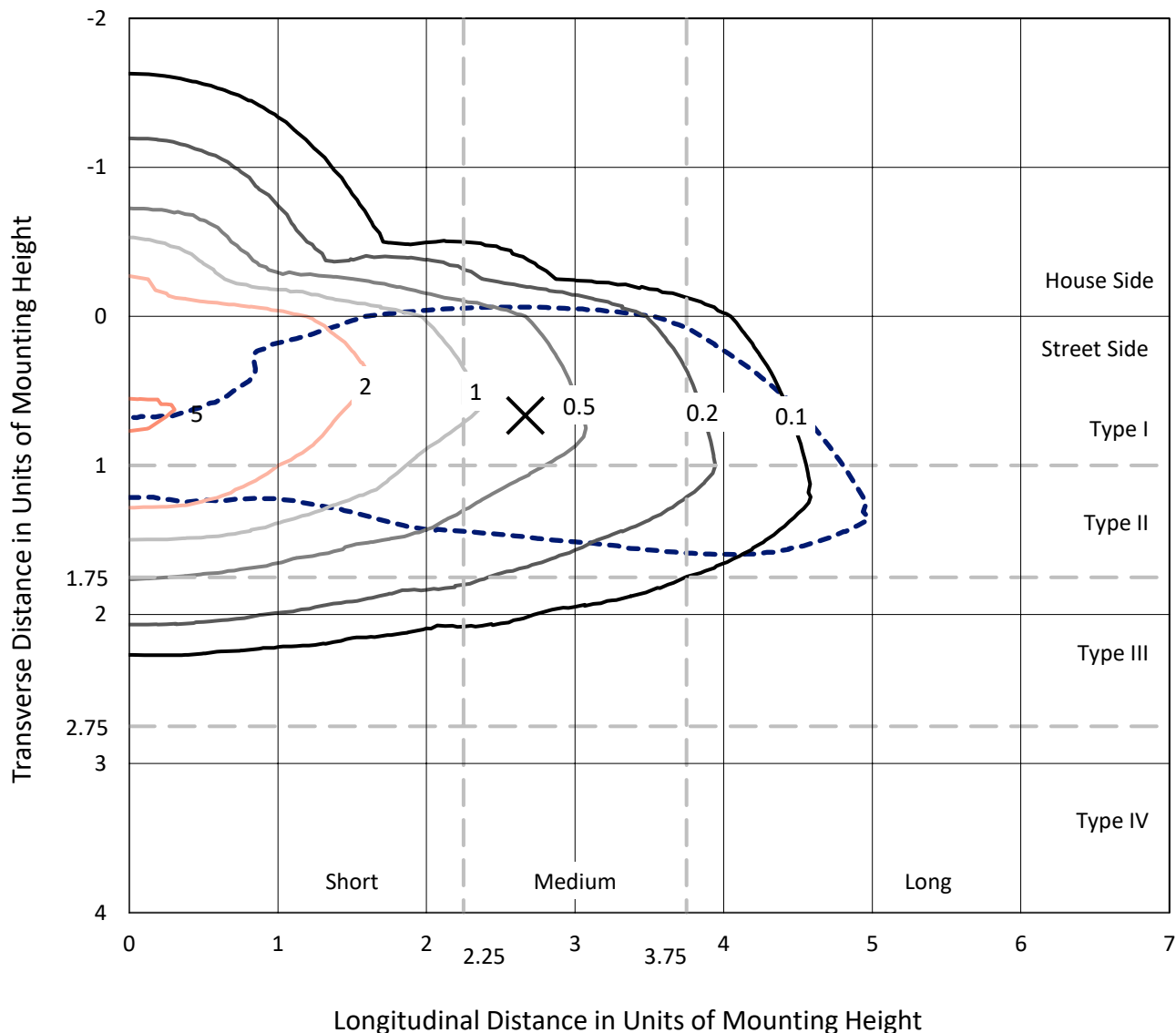
Input Watts (W): 28.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

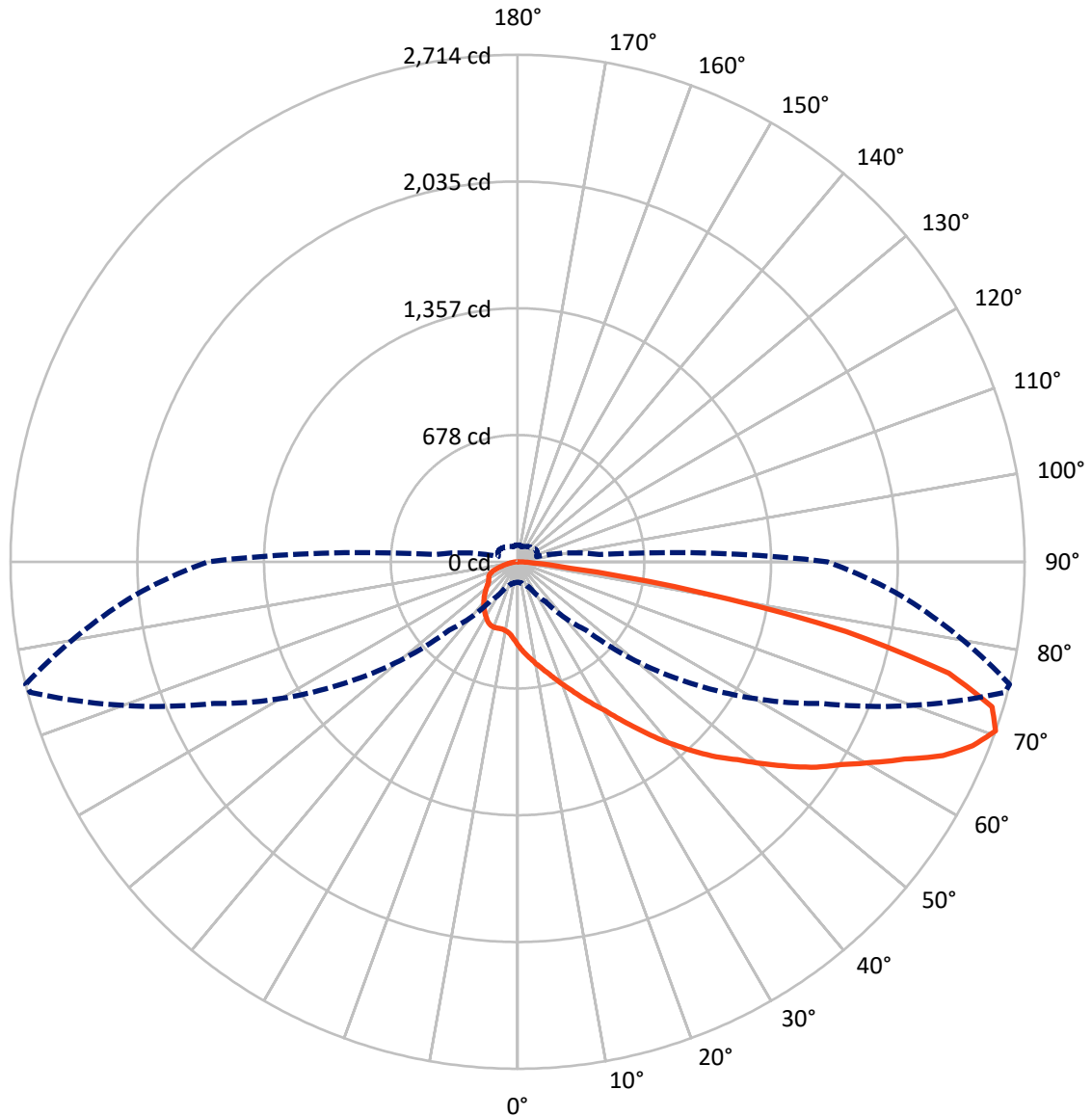
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.4 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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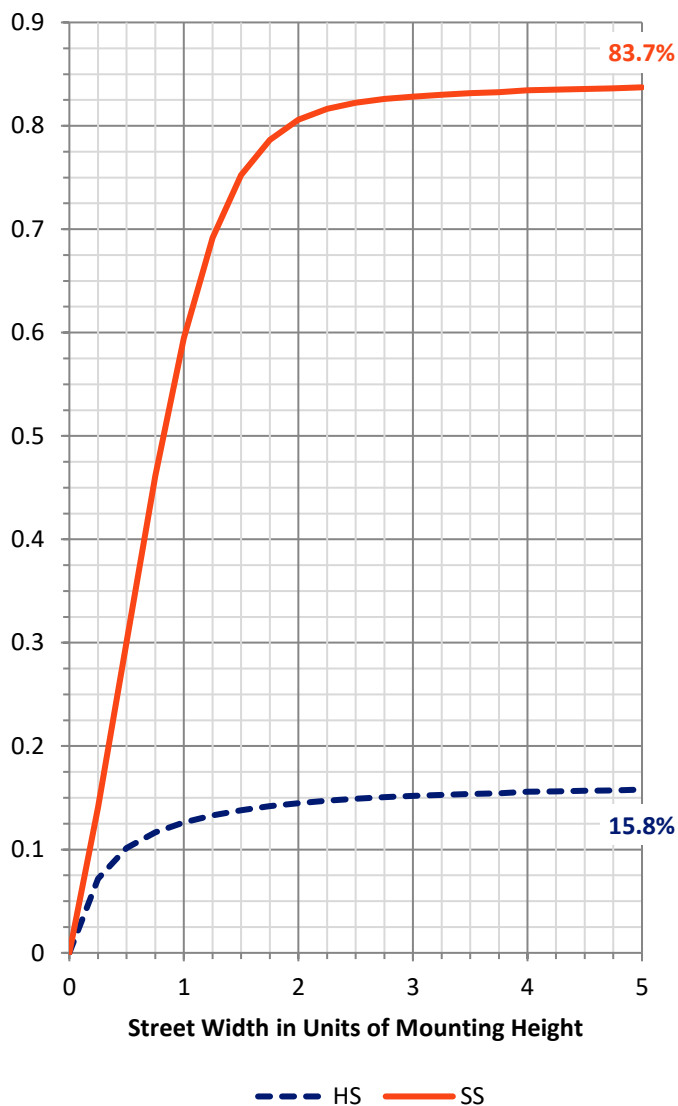
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	547.6	0.0	547.6
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	2866.4	0.0	2866.4
	% Fixture	84.0	0.0	84.0
Total	Lumens	3414.0	0.0	3414.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.7	1.3
10°-20°	144.0	4.2
20°-30°	265.5	7.8
30°-40°	444.8	13.0
40°-50°	632.0	18.5
50°-60°	729.6	21.4
60°-70°	670.7	19.6
70°-80°	422.9	12.4
80°-90°	60.8	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°	3414.0	100.0
0°-180°	3414.0	100.0

Coefficient of Utilization

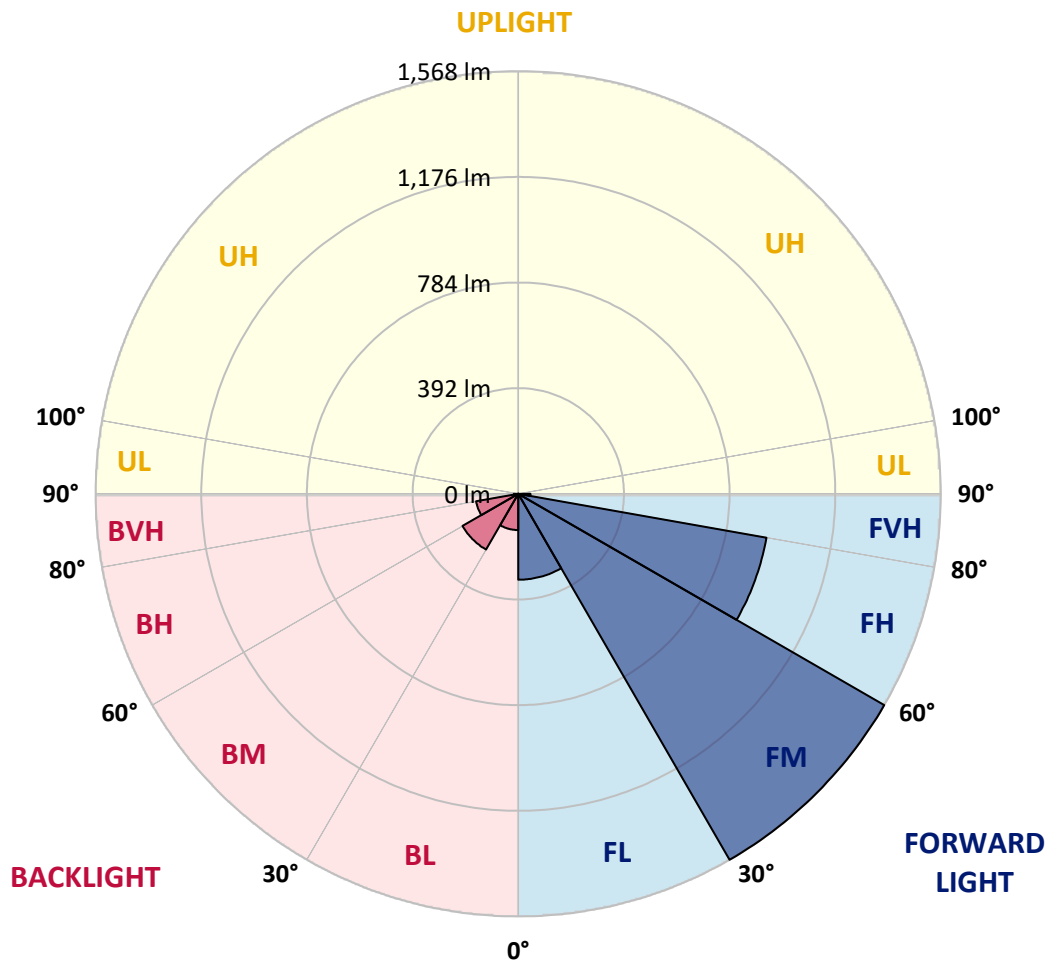


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	318.7	9.3			
FM (30°-60°)	1567.6	45.9			
FH (60°-80°)	935.0	27.4			G1/1800
FVH (80°-90°)	45.1	1.3			G1/100
BL (0°-30°)	134.4	3.9	B1/500		
BM (30°-60°)	238.7	7.0	B1/1000		
BH (60°-80°)	158.7	4.6	B1/500		G1/500
BVH (80°-90°)	15.7	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°	447.9	447.9	447.9	447.9	447.9	447.9	447.9	447.9	447.9	447.9	447.9
2.5°	539.1	538.3	535.8	531.7	528.4	518.5	505.4	493.9	476.6	475.0	457.7
5°	587.6	584.3	584.3	580.2	576.1	565.4	548.9	528.4	503.7	502.1	469.2
7.5°	610.6	611.4	609.8	606.5	607.3	598.3	583.5	562.9	529.2	527.6	484.8
10°	643.4	642.6	639.3	636.9	636.1	627.8	614.7	595.8	560.4	557.2	502.9
12.5°	675.5	673.0	673.9	673.0	671.4	663.2	650.8	631.9	588.4	586.7	525.1
15°	693.6	692.8	698.5	700.1	706.7	699.3	688.6	667.3	627.8	621.3	551.4
17.5°	705.1	704.3	710.0	723.2	735.5	735.5	732.2	709.2	665.6	660.7	581.0
20°	724.8	728.1	738.0	748.6	766.7	770.0	769.2	759.3	709.2	704.3	613.9
22.5°	764.2	762.6	770.8	787.3	803.7	808.6	809.4	809.4	759.3	750.3	647.6
25°	848.9	844.8	838.2	836.6	856.3	855.5	853.0	858.8	811.9	805.3	686.2
27.5°	1010.0	1000.9	975.4	924.5	913.0	917.1	904.8	905.6	871.9	863.7	719.1
30°	1162.8	1158.7	1134.9	1073.2	1008.3	985.3	963.9	954.9	938.5	924.5	754.4
32.5°	1300.9	1301.7	1272.9	1205.5	1139.0	1066.7	1029.7	1010.8	1017.4	1005.0	802.9
35°	1394.5	1387.2	1369.1	1323.9	1251.6	1182.5	1111.9	1069.9	1105.3	1091.3	851.4
37.5°	1449.6	1443.9	1429.1	1397.0	1360.9	1294.3	1204.7	1140.6	1209.6	1189.1	913.0
40°	1477.5	1469.3	1454.5	1441.4	1424.1	1388.0	1309.1	1221.2	1305.0	1286.9	973.8
42.5°	1480.8	1475.1	1466.9	1460.3	1466.0	1461.1	1411.0	1314.8	1405.2	1385.5	1043.7
45°	1478.4	1482.5	1472.6	1461.1	1472.6	1514.5	1514.5	1408.5	1504.7	1489.9	1110.2
47.5°	1480.0	1475.9	1472.6	1469.3	1471.0	1528.5	1586.0	1496.4	1600.0	1582.7	1188.3
50°	1411.8	1417.6	1445.5	1457.8	1465.2	1531.8	1643.5	1591.8	1718.3	1697.0	1275.4
52.5°	1194.9	1198.1	1325.5	1417.6	1447.1	1518.6	1683.8	1697.8	1835.0	1818.6	1369.1
55°	920.4	937.6	1058.4	1283.6	1406.1	1496.4	1696.1	1766.8	1954.2	1941.0	1463.6
57.5°	757.7	760.1	830.0	1031.3	1276.2	1475.9	1708.5	1830.1	2061.0	2046.2	1562.2
60°	628.7	622.9	665.6	795.5	1060.1	1393.7	1710.9	1880.2	2185.1	2180.2	1664.1
62.5°	461.8	468.4	509.5	619.6	829.2	1226.9	1698.6	1922.9	2333.0	2326.4	1777.5
65°	283.5	291.7	341.9	442.9	627.8	973.8	1618.1	1945.1	2488.3	2503.1	1899.9
67.5°	150.4	156.1	185.7	267.9	430.6	742.1	1424.1	1917.2	2619.8	2626.4	2017.5
70°	110.1	110.9	120.8	151.2	259.7	516.1	1134.0	1795.6	2700.3	2713.5	2056.1
72.5°	96.1	97.0	101.1	108.5	141.3	314.7	812.7	1583.6	2666.7	2655.1	1991.2
75°	87.1	87.1	90.4	92.9	103.5	174.2	498.0	1295.9	2409.4	2384.0	1697.8
77.5°	74.8	74.8	78.1	81.4	89.6	112.6	260.5	960.7	1842.4	1798.9	1161.2
80°	60.0	60.0	64.1	68.2	78.9	84.6	127.4	642.6	1053.5	989.4	528.4
82.5°	41.1	44.4	51.8	56.7	65.7	60.0	74.8	277.8	332.0	287.6	119.2
85°	24.7	26.3	37.0	42.7	49.3	32.0	46.0	106.8	99.4	87.1	27.1
87.5°	2.5	4.1	14.8	17.3	17.3	9.0	19.7	25.5	28.8	29.6	6.6
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°	447.9	447.9	447.9	447.9	447.9	447.9	447.9	447.9	447.9	447.9	447.9
2.5°	447.9	438.0	419.1	401.8	384.6	373.1	361.6	357.5	351.7	347.6	350.9
5°	452.0	431.4	395.3	364.9	344.3	328.7	321.3	317.2	313.9	313.1	312.3
7.5°	456.9	426.5	378.0	344.3	324.6	317.2	315.6	315.6	315.6	316.4	317.2
10°	467.6	428.1	369.0	332.8	322.1	320.5	321.3	324.6	324.6	325.4	325.4
12.5°	479.9	432.3	362.4	331.2	324.6	325.4	326.2	327.9	327.9	330.4	329.5
15°	498.0	440.5	361.6	332.8	327.1	325.4	325.4	324.6	324.6	324.6	326.2
17.5°	521.0	452.0	362.4	332.8	324.6	321.3	318.8	316.4	313.1	314.7	313.1
20°	544.0	465.9	362.4	328.7	318.0	309.8	302.4	298.3	294.2	293.4	294.2
22.5°	572.8	482.4	358.3	319.7	304.1	292.6	281.9	276.1	269.5	267.1	265.4
25°	597.4	495.5	350.1	306.5	288.4	272.0	258.0	248.2	240.0	238.3	238.3
27.5°	622.9	507.0	337.7	290.1	266.3	248.2	232.6	220.2	212.0	211.2	210.4
30°	646.7	516.9	321.3	272.0	246.5	225.2	207.1	196.4	189.0	184.9	182.4
32.5°	678.0	530.0	305.7	253.9	223.5	202.2	185.7	176.7	166.8	160.2	157.8
35°	717.4	545.7	288.4	234.2	203.0	181.6	171.8	158.6	146.3	138.9	136.4
37.5°	761.8	567.8	270.4	213.7	182.4	166.8	161.1	140.5	127.4	124.9	124.1
40°	816.8	589.2	249.8	192.3	162.7	158.6	148.7	127.4	120.8	120.0	119.2
42.5°	871.9	612.2	230.1	170.9	147.1	148.7	134.8	124.1	118.3	116.7	115.9
45°	936.0	635.2	210.4	152.0	134.8	134.8	127.4	120.8	115.9	114.2	114.2
47.5°	1003.4	658.2	189.0	135.6	125.7	120.8	121.6	116.7	113.4	111.8	110.9
50°	1088.0	680.4	169.3	124.1	120.0	113.4	115.9	112.6	110.9	109.3	108.5
52.5°	1167.7	690.3	151.2	117.5	116.7	110.1	110.9	109.3	108.5	106.0	105.2
55°	1245.8	687.8	137.2	114.2	112.6	109.3	107.7	106.8	106.0	103.5	102.7
57.5°	1332.9	684.5	128.2	113.4	110.1	106.8	106.8	104.4	101.1	101.1	101.1
60°	1423.3	673.9	124.1	113.4	109.3	106.8	105.2	102.7	99.4	100.3	99.4
62.5°	1525.2	653.3	121.6	115.9	110.1	106.0	104.4	101.1	97.0	97.8	97.0
65°	1614.8	611.4	120.0	118.3	111.8	106.8	102.7	98.6	93.7	94.5	93.7
67.5°	1675.6	540.7	115.0	120.0	114.2	106.0	101.1	95.3	88.8	92.0	91.2
70°	1658.3	439.6	106.0	116.7	116.7	106.8	98.6	91.2	83.8	90.4	87.9
72.5°	1524.4	330.4	88.8	105.2	115.0	106.8	93.7	84.6	78.1	82.2	77.2
75°	1251.6	224.3	70.7	83.8	107.7	107.7	89.6	78.1	69.9	67.4	65.7
77.5°	780.7	139.7	55.1	61.6	90.4	106.8	85.5	69.9	58.3	56.7	55.1
80°	309.0	74.8	43.6	44.4	66.6	97.8	79.7	59.2	46.8	45.2	41.9
82.5°	70.7	37.8	30.4	29.6	41.1	79.7	72.3	46.8	36.2	36.2	30.4
85°	21.4	19.7	19.7	18.9	20.5	41.1	55.9	32.0	24.7	17.3	14.8
87.5°	5.8	8.2	7.4	6.6	6.6	5.8	18.1	8.2	4.9	2.5	1.6
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)