

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: P594543

Luminaire Tested: **ISS-PA1B-730-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594543
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-730-U-T2R
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3000K, 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: 4890 lumens
Efficiency: N/A
Efficacy: 134.3 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

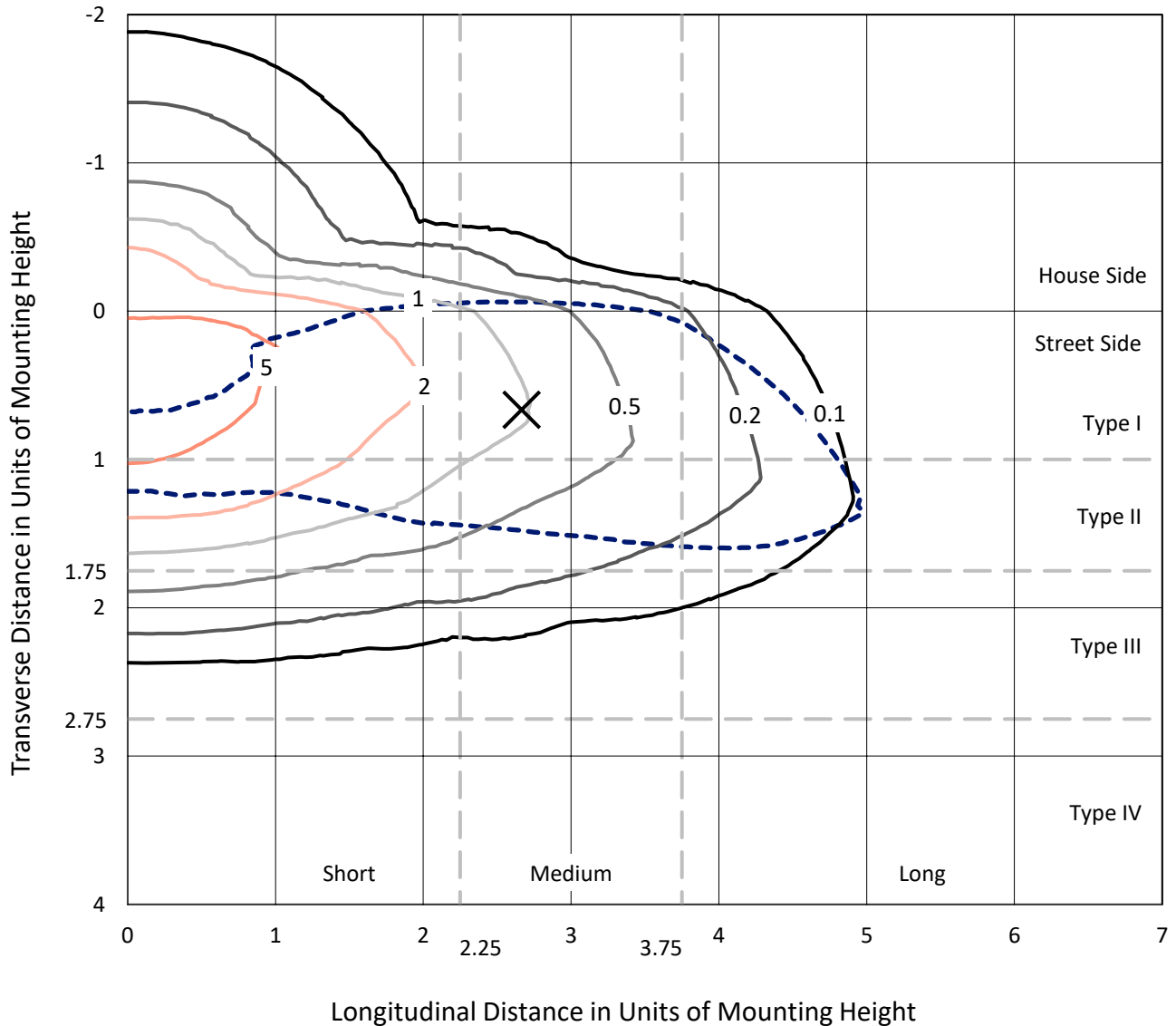
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

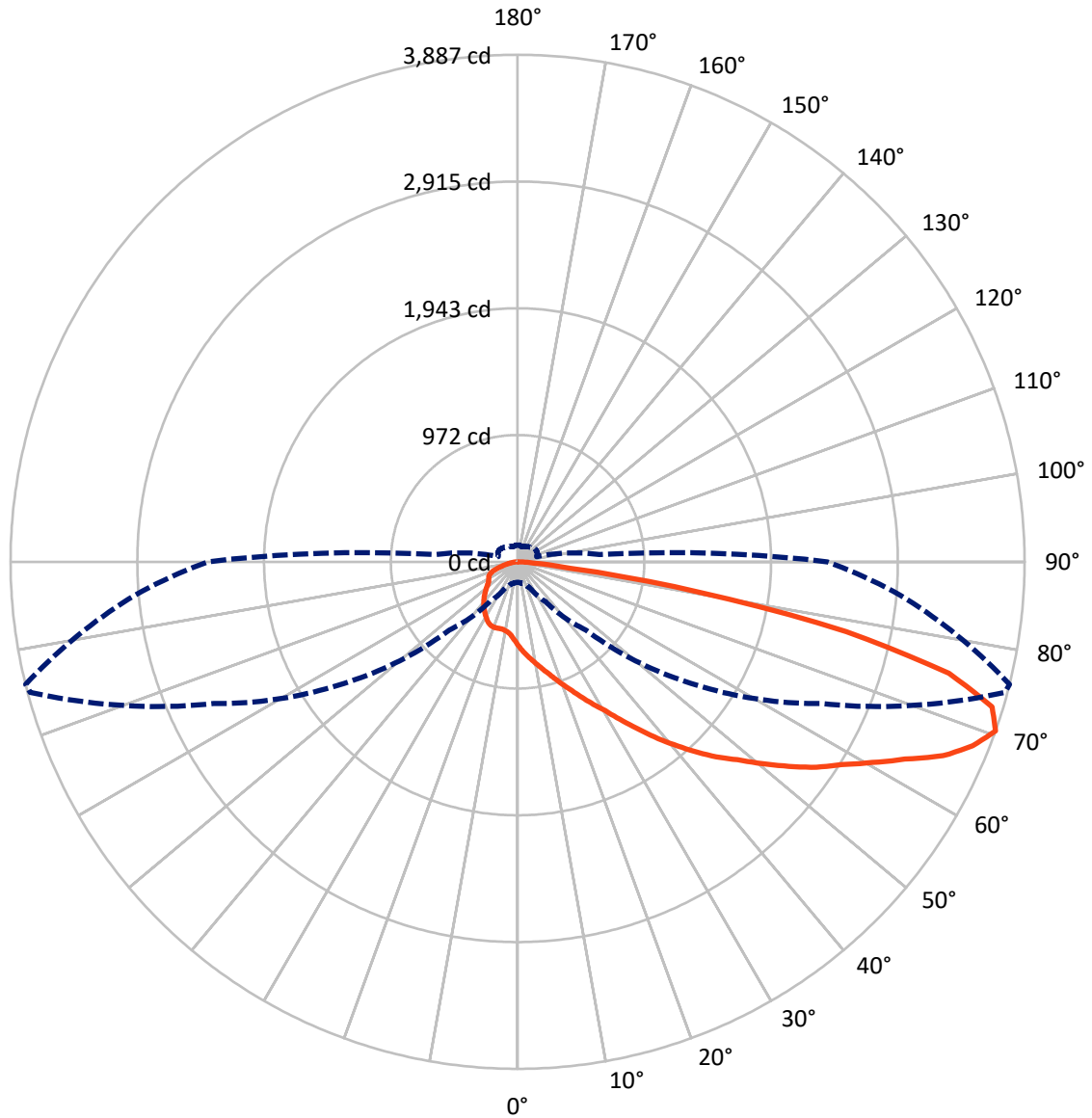
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Medium - N/A

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CATALOG NUMBER: ISS-PA1B-730-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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 CATALOG NUMBER: ISS-PA1B-730-U-T2R

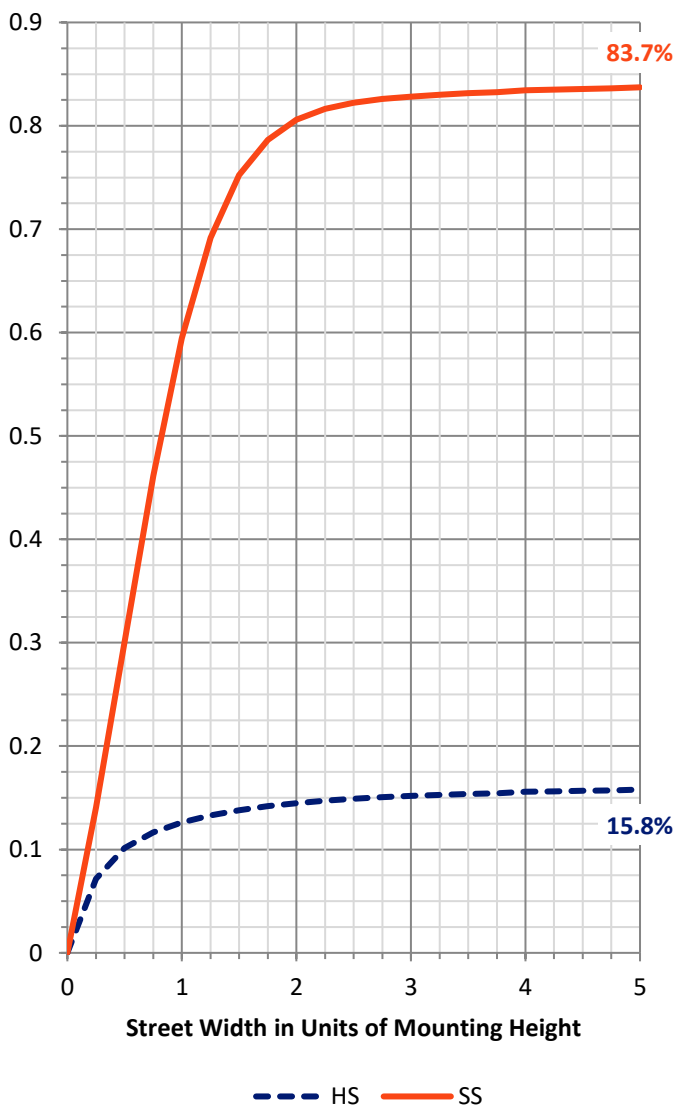
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	784.3	0.0	784.3
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	4105.7	0.0	4105.7
	% Fixture	84.0	0.0	84.0
Total	Lumens	4890.0	0.0	4890.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.5	1.3
10°-20°	206.3	4.2
20°-30°	380.2	7.8
30°-40°	637.0	13.0
40°-50°	905.2	18.5
50°-60°	1045.1	21.4
60°-70°	960.7	19.6
70°-80°	605.8	12.4
80°-90°	87.1	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°	4890.0	100.0
0°-180°	4890.0	100.0

Coefficient of Utilization

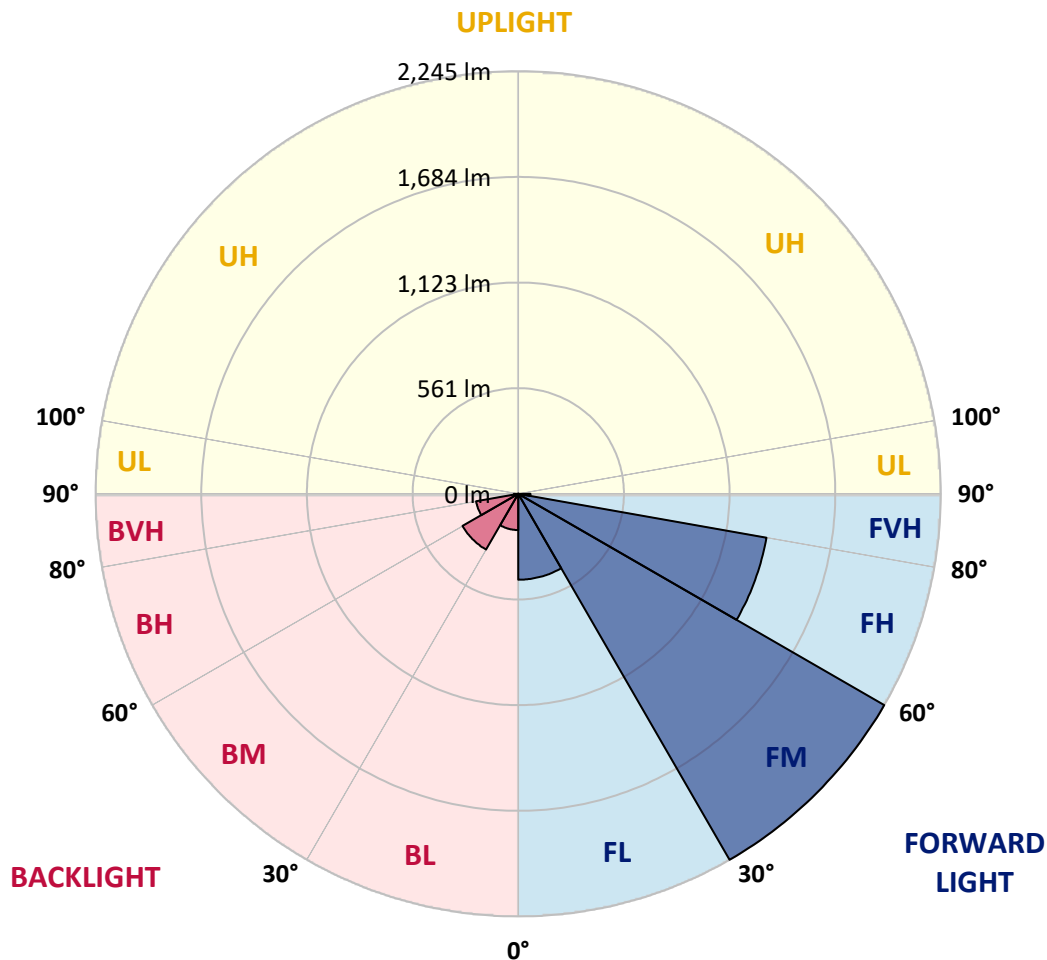


REPORT NUMBER: P594543
 CATALOG NUMBER: ISS-PA1B-730-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	456.5	9.3			
FM (30°-60°)	2245.4	45.9			
FH (60°-80°)	1339.2	27.4			G1/1800
FVH (80°-90°)	64.6	1.3			G1/100
BL (0°-30°)	192.5	3.9	B1/500		
BM (30°-60°)	341.9	7.0	B1/1000		
BH (60°-80°)	227.3	4.6	B1/500		G1/500
BVH (80°-90°)	22.5	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°	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5
2.5°	772.1	771.0	767.4	761.6	756.8	742.7	723.9	707.4	682.7	680.3	655.6
5°	841.6	836.9	836.9	831.0	825.1	809.8	786.3	756.8	721.5	719.2	672.1
7.5°	874.6	875.7	873.4	868.7	869.8	856.9	835.7	806.3	758.0	755.7	694.5
10°	921.6	920.5	915.7	912.2	911.0	899.3	880.4	853.4	802.8	798.0	720.4
12.5°	967.5	964.0	965.2	964.0	961.7	949.9	932.2	905.2	842.8	840.4	752.1
15°	993.4	992.3	1000.5	1002.9	1012.3	1001.7	986.4	955.8	899.3	889.9	789.8
17.5°	1009.9	1008.7	1017.0	1035.8	1053.5	1053.5	1048.8	1015.8	953.4	946.4	832.2
20°	1038.2	1042.9	1057.0	1072.3	1098.2	1102.9	1101.7	1087.6	1015.8	1008.7	879.3
22.5°	1094.7	1092.3	1104.1	1127.6	1151.2	1158.2	1159.4	1159.4	1087.6	1074.7	927.5
25°	1215.9	1210.0	1200.6	1198.2	1226.5	1225.3	1221.8	1230.0	1162.9	1153.5	982.8
27.5°	1446.6	1433.7	1397.2	1324.2	1307.7	1313.6	1295.9	1297.1	1248.9	1237.1	1029.9
30°	1665.5	1659.6	1625.5	1537.2	1444.2	1411.3	1380.7	1367.7	1344.2	1324.2	1080.5
32.5°	1863.3	1864.5	1823.3	1726.7	1631.4	1527.8	1474.9	1447.8	1457.2	1439.5	1150.0
35°	1997.5	1986.9	1961.0	1896.2	1792.7	1693.8	1592.6	1532.5	1583.1	1563.1	1219.4
37.5°	2076.3	2068.1	2046.9	2001.0	1949.2	1853.9	1725.6	1633.8	1732.6	1703.2	1307.7
40°	2116.3	2104.6	2083.4	2064.6	2039.8	1988.0	1875.0	1749.1	1869.2	1843.3	1394.8
42.5°	2121.1	2112.8	2101.0	2091.6	2099.9	2092.8	2021.0	1883.3	2012.8	1984.5	1494.9
45°	2117.5	2123.4	2109.3	2092.8	2109.3	2169.3	2169.3	2017.5	2155.2	2134.0	1590.2
47.5°	2119.9	2114.0	2109.3	2104.6	2106.9	2189.3	2271.7	2143.4	2291.7	2267.0	1702.0
50°	2022.2	2030.4	2070.4	2088.1	2098.7	2194.0	2354.1	2280.0	2461.2	2430.6	1826.8
52.5°	1711.4	1716.1	1898.6	2030.4	2072.8	2175.2	2411.8	2431.8	2628.4	2604.8	1961.0
55°	1318.3	1343.0	1516.0	1838.6	2013.9	2143.4	2429.4	2530.7	2799.0	2780.2	2096.3
57.5°	1085.2	1088.8	1188.8	1477.2	1828.0	2114.0	2447.1	2621.3	2952.1	2930.9	2237.6
60°	900.4	892.2	953.4	1139.4	1518.4	1996.3	2450.6	2693.1	3129.8	3122.7	2383.5
62.5°	661.5	670.9	729.8	887.5	1187.6	1757.3	2433.0	2754.3	3341.7	3332.2	2546.0
65°	406.1	417.9	489.7	634.4	899.3	1394.8	2317.6	2786.1	3564.1	3585.3	2721.4
67.5°	215.4	223.6	266.0	383.7	616.8	1062.9	2039.8	2746.1	3752.5	3761.9	2889.7
70°	157.7	158.9	173.0	216.6	371.9	739.2	1624.3	2571.9	3867.8	3886.6	2945.0
72.5°	137.7	138.9	144.8	155.4	202.5	450.8	1164.1	2268.2	3819.5	3803.1	2852.0
75°	124.8	124.8	129.5	133.0	148.3	249.5	713.3	1856.2	3451.1	3414.6	2431.8
77.5°	107.1	107.1	111.8	116.5	128.3	161.3	373.1	1376.0	2639.0	2576.6	1663.2
80°	85.9	85.9	91.8	97.7	113.0	121.2	182.4	920.5	1509.0	1417.2	756.8
82.5°	58.9	63.6	74.2	81.2	94.2	85.9	107.1	397.8	475.5	412.0	170.7
85°	35.3	37.7	53.0	61.2	70.6	45.9	65.9	153.0	142.4	124.8	38.8
87.5°	3.5	5.9	21.2	24.7	24.7	12.9	28.2	36.5	41.2	42.4	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P594543
 CATALOG NUMBER: ISS-PA1B-730-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5	641.5
2.5°	641.5	627.4	600.3	575.6	550.9	534.4	517.9	512.0	503.8	497.9	502.6
5°	647.4	618.0	566.2	522.6	493.2	470.8	460.2	454.3	449.6	448.5	447.3
7.5°	654.4	610.9	541.4	493.2	464.9	454.3	452.0	452.0	452.0	453.2	454.3
10°	669.7	613.2	528.5	476.7	461.4	459.1	460.2	464.9	464.9	466.1	466.1
12.5°	687.4	619.1	519.1	474.4	464.9	466.1	467.3	469.6	469.6	473.2	472.0
15°	713.3	630.9	517.9	476.7	468.5	466.1	466.1	464.9	464.9	464.9	467.3
17.5°	746.3	647.4	519.1	476.7	464.9	460.2	456.7	453.2	448.5	450.8	448.5
20°	779.2	667.4	519.1	470.8	455.5	443.7	433.2	427.3	421.4	420.2	421.4
22.5°	820.4	690.9	513.2	457.9	435.5	419.0	403.7	395.5	386.1	382.5	380.2
25°	855.7	709.8	501.4	439.0	413.1	389.6	369.6	355.5	343.7	341.3	341.3
27.5°	892.2	726.2	483.8	415.5	381.4	355.5	333.1	315.5	303.7	302.5	301.3
30°	926.3	740.4	460.2	389.6	353.1	322.5	296.6	281.3	270.7	264.8	261.3
32.5°	971.1	759.2	437.9	363.7	320.2	289.6	266.0	253.1	238.9	229.5	226.0
35°	1027.6	781.6	413.1	335.5	290.7	260.1	246.0	227.2	209.5	198.9	195.4
37.5°	1091.1	813.3	387.3	306.0	261.3	238.9	230.7	201.3	182.4	178.9	177.7
40°	1170.0	843.9	357.8	275.4	233.1	227.2	213.0	182.4	173.0	171.9	170.7
42.5°	1248.9	876.9	329.6	244.8	210.7	213.0	193.0	177.7	169.5	167.1	166.0
45°	1340.7	909.9	301.3	217.8	193.0	193.0	182.4	173.0	166.0	163.6	163.6
47.5°	1437.2	942.8	270.7	194.2	180.1	173.0	174.2	167.1	162.4	160.1	158.9
50°	1558.4	974.6	242.5	177.7	171.9	162.4	166.0	161.3	158.9	156.5	155.4
52.5°	1672.6	988.7	216.6	168.3	167.1	157.7	158.9	156.5	155.4	151.8	150.7
55°	1784.4	985.2	196.6	163.6	161.3	156.5	154.2	153.0	151.8	148.3	147.1
57.5°	1909.2	980.5	183.6	162.4	157.7	153.0	153.0	149.5	144.8	144.8	144.8
60°	2038.7	965.2	177.7	162.4	156.5	153.0	150.7	147.1	142.4	143.6	142.4
62.5°	2184.6	935.8	174.2	166.0	157.7	151.8	149.5	144.8	138.9	140.1	138.9
65°	2312.9	875.7	171.9	169.5	160.1	153.0	147.1	141.2	134.2	135.4	134.2
67.5°	2400.0	774.5	164.8	171.9	163.6	151.8	144.8	136.5	127.1	131.8	130.7
70°	2375.3	629.7	151.8	167.1	167.1	153.0	141.2	130.7	120.1	129.5	125.9
72.5°	2183.4	473.2	127.1	150.7	164.8	153.0	134.2	121.2	111.8	117.7	110.6
75°	1792.7	321.3	101.2	120.1	154.2	154.2	128.3	111.8	100.0	96.5	94.2
77.5°	1118.2	200.1	78.9	88.3	129.5	153.0	122.4	100.0	83.6	81.2	78.9
80°	442.6	107.1	62.4	63.6	95.3	140.1	114.2	84.7	67.1	64.7	60.0
82.5°	101.2	54.1	43.6	42.4	58.9	114.2	103.6	67.1	51.8	51.8	43.6
85°	30.6	28.2	28.2	27.1	29.4	58.9	80.0	45.9	35.3	24.7	21.2
87.5°	8.2	11.8	10.6	9.4	9.4	8.2	25.9	11.8	7.1	3.5	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)