

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: STREETWORKS

Report Number: P397737

Luminaire Tested: **ARCH-S-PA1-30-830-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-30-830-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3766 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 31
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

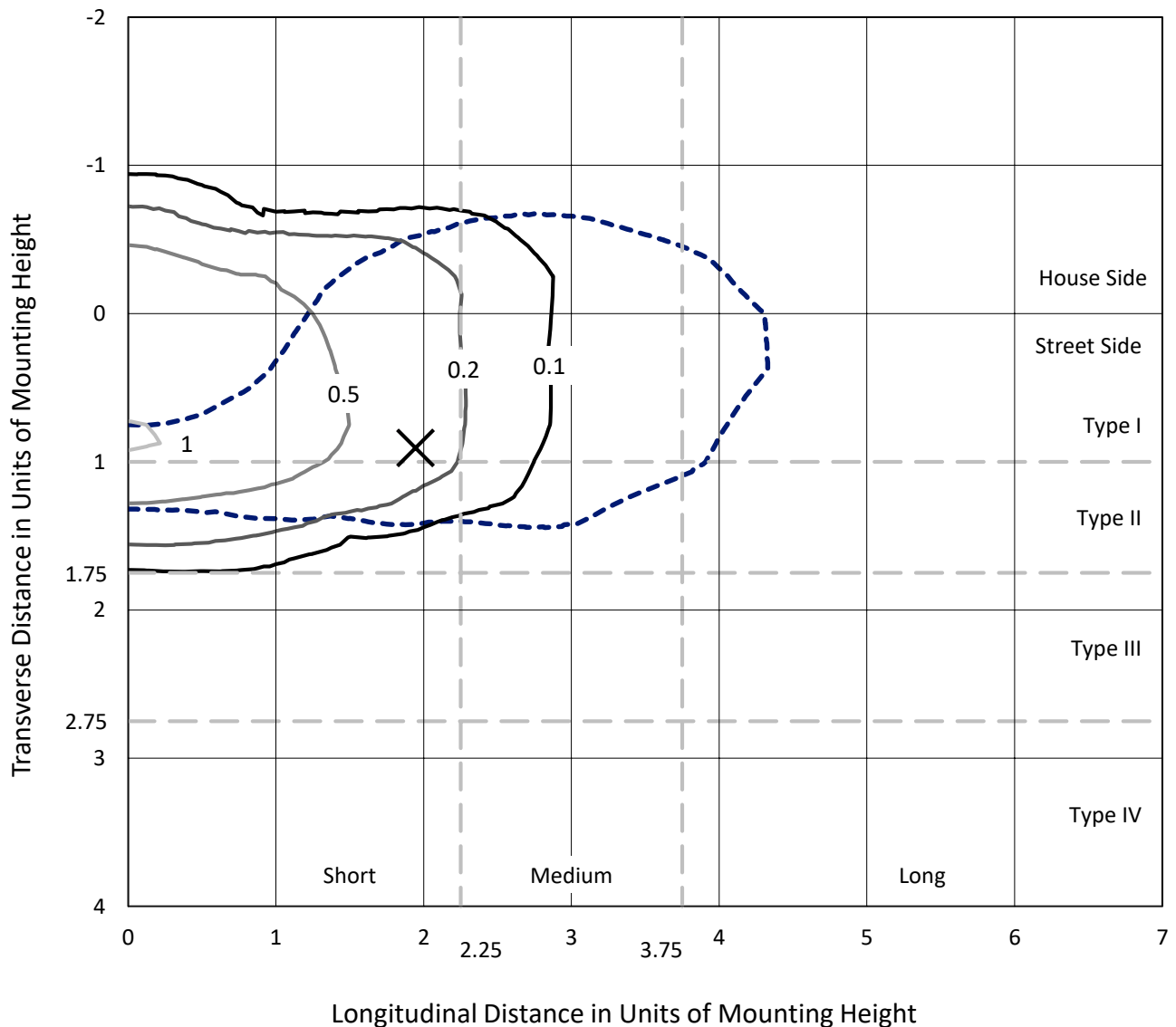


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

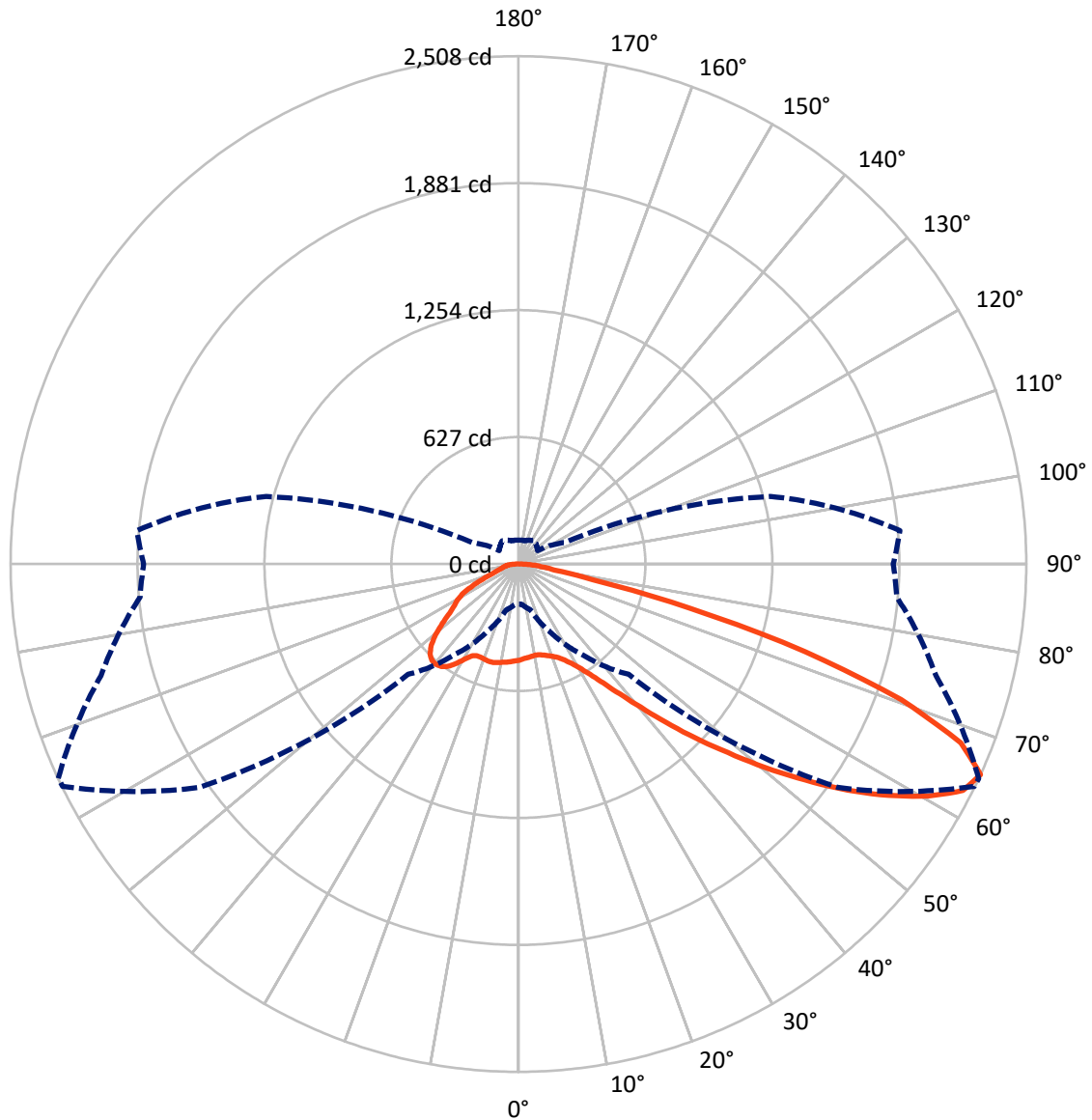


Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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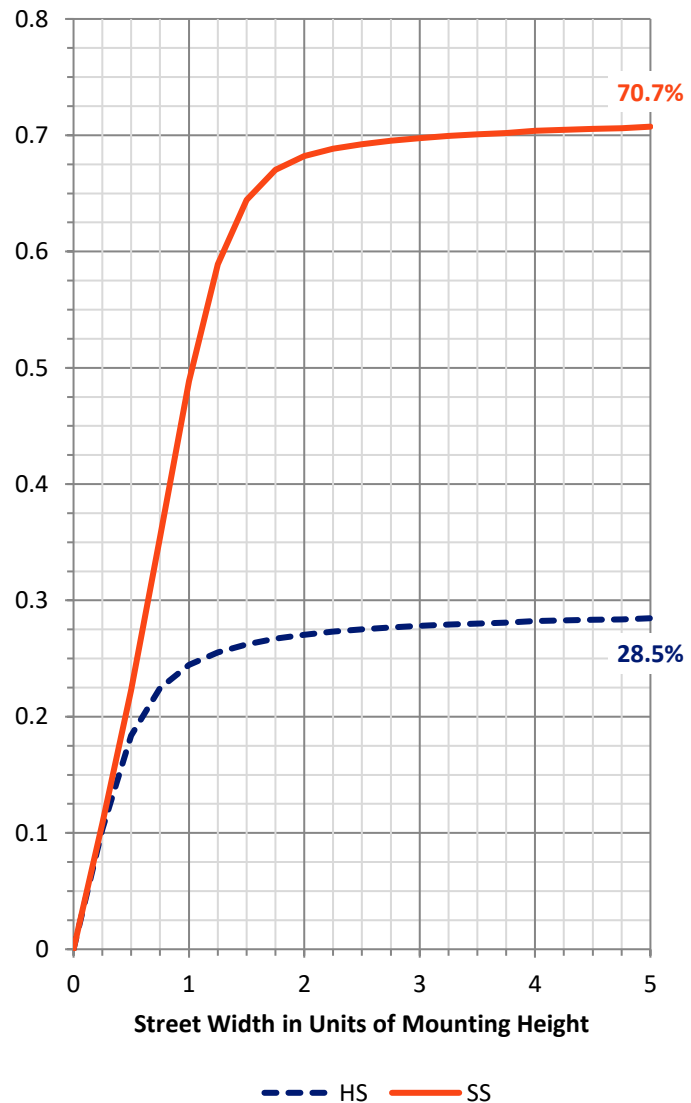
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1088.8	0.0	1088.8
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	2677.2	0.0	2677.2
	% Fixture	71.1	0.0	71.1
Total	Lumens	3766.0	0.0	3766.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.3	1.2
10°-20°	135.4	3.6
20°-30°	240.4	6.4
30°-40°	406.8	10.8
40°-50°	708.1	18.8
50°-60°	915.1	24.3
60°-70°	800.7	21.3
70°-80°	435.5	11.6
80°-90°	78.7	2.1
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°	3766.0	100.0
0°-180°	3766.0	100.0



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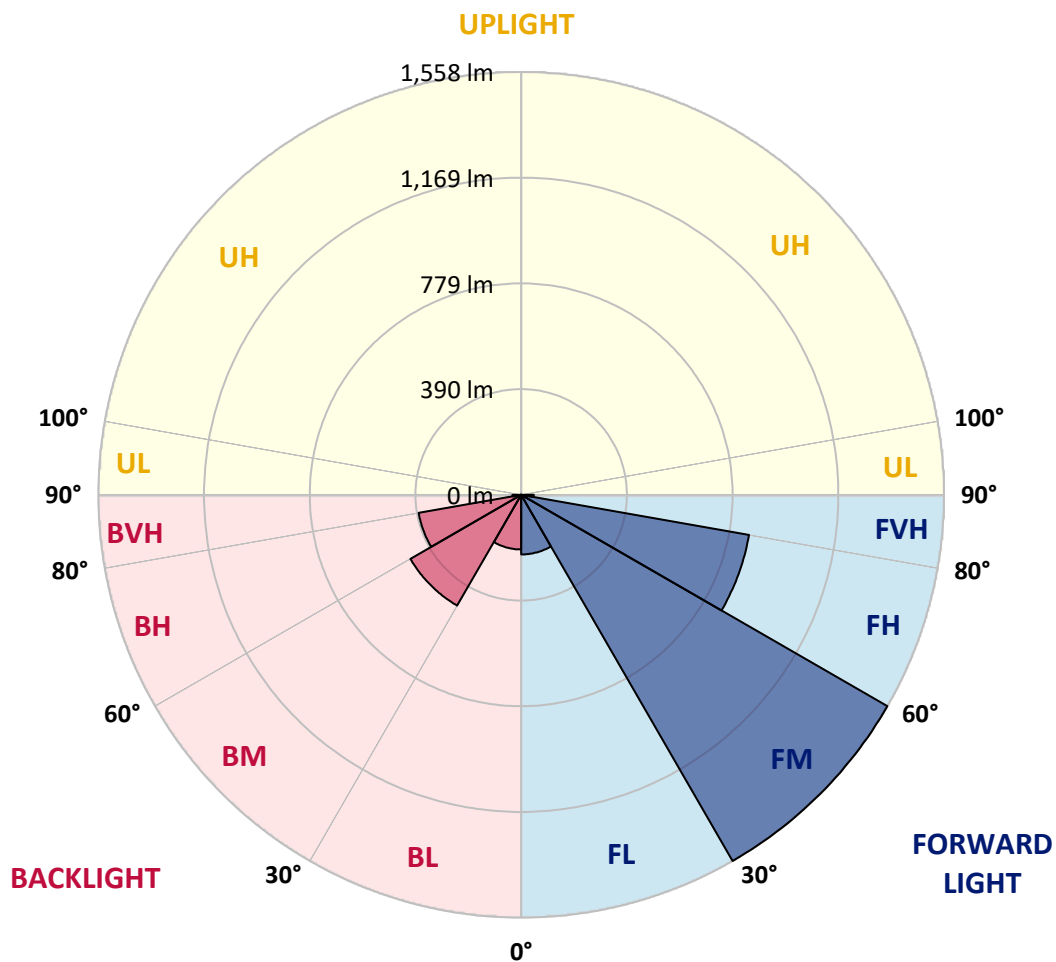
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	219.7	5.8			
FM	(30°-60°)	1558.5	41.4			
FH	(60°-80°)	852.7	22.6			G1/1800
FVH	(80°-90°)	46.3	1.2			G1/100
BL	(0°-30°)	201.4	5.3	B1/500		
BM	(30°-60°)	471.4	12.5	B1/1000		
BH	(60°-80°)	383.6	10.2	B1/500		G1/500
BVH	(80°-90°)	32.4	0.9			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	475.9	475.9	475.9	475.9	475.9	475.9	475.9	475.9	475.9	475.9	475.9
2.5°	467.4	466.9	466.0	466.9	467.4	468.4	467.9	468.9	468.4	469.9	472.4
5°	455.5	454.6	454.1	456.5	458.0	460.5	461.5	465.0	464.5	466.9	470.9
7.5°	442.2	442.2	441.7	444.6	446.6	451.1	454.6	460.5	461.0	465.5	469.9
10°	431.8	432.2	431.8	434.2	437.2	442.7	448.6	457.0	457.5	464.0	468.4
12.5°	427.8	427.8	427.8	431.3	435.2	442.7	449.6	458.5	459.5	466.5	470.4
15°	433.2	433.7	432.7	436.2	440.7	449.6	456.0	465.5	466.5	472.9	475.4
17.5°	452.6	454.6	452.1	454.1	453.1	460.0	466.0	475.4	475.9	481.3	482.3
20°	490.7	492.7	488.8	486.3	477.4	476.9	479.3	486.8	486.8	490.2	487.8
22.5°	549.7	551.7	544.8	535.4	514.0	503.6	498.2	501.6	501.2	502.6	496.2
25°	628.0	627.6	619.1	601.8	567.6	542.3	528.9	523.5	523.5	520.5	512.6
27.5°	725.2	717.8	702.9	682.1	634.5	599.3	570.5	556.7	554.2	545.3	530.4
30°	828.8	823.4	802.0	771.8	716.8	671.7	624.1	596.3	594.8	575.5	553.2
32.5°	950.7	941.8	918.0	881.8	815.9	752.5	693.0	650.9	648.4	617.6	586.9
35°	1107.4	1100.0	1053.9	1017.7	932.9	849.6	779.2	723.2	721.2	683.6	644.4
37.5°	1295.3	1275.9	1231.3	1163.4	1074.2	975.5	886.3	815.9	813.4	771.8	722.2
40°	1462.8	1445.5	1405.8	1343.3	1247.7	1138.1	1017.2	931.9	929.4	878.9	816.4
42.5°	1586.7	1574.8	1549.1	1512.9	1444.5	1378.0	1184.2	1072.2	1067.7	1002.3	924.5
45°	1658.6	1649.2	1634.3	1643.2	1642.2	1629.9	1383.5	1239.2	1224.9	1140.1	1044.9
47.5°	1641.3	1632.8	1638.8	1708.2	1803.8	1875.7	1615.5	1410.3	1390.9	1280.4	1173.3
50°	1515.8	1519.3	1550.5	1683.4	1898.0	2057.6	1872.7	1605.1	1579.3	1421.7	1295.3
52.5°	1287.3	1295.8	1371.6	1557.5	1887.6	2175.6	2105.2	1806.3	1772.1	1559.5	1406.3
55°	1022.6	1043.9	1142.1	1337.4	1751.8	2184.0	2280.7	2008.6	1970.9	1688.8	1503.0
57.5°	756.4	788.2	901.7	1081.1	1491.6	2050.7	2368.4	2201.9	2156.3	1817.2	1605.1
60°	479.8	499.2	630.0	841.7	1141.6	1724.5	2357.0	2366.5	2326.8	1945.1	1711.6
62.5°	306.3	315.8	381.7	600.3	798.1	1276.9	2232.6	2490.9	2464.1	2061.6	1812.8
65°	196.8	200.8	234.5	369.3	543.3	770.8	1922.8	2504.3	2507.7	2134.5	1875.2
67.5°	160.1	162.1	174.5	228.0	384.2	425.8	1339.4	2313.9	2356.1	2115.6	1853.9
70°	145.7	148.2	161.1	181.9	297.4	293.9	648.4	1936.2	2005.1	2007.1	1759.2
72.5°	122.9	126.4	143.8	172.0	230.0	232.0	274.6	1379.0	1480.7	1793.9	1617.0
75°	102.6	104.6	119.5	151.7	194.8	185.4	192.8	731.2	877.9	1438.5	1465.8
77.5°	83.3	85.3	96.2	121.0	173.0	144.2	151.7	302.9	374.3	976.5	1198.1
80°	59.5	61.5	73.9	94.2	130.9	129.9	112.5	167.1	181.4	527.9	778.2
82.5°	42.6	44.1	56.0	67.4	90.7	130.4	84.8	113.5	119.0	234.0	313.8
85°	28.8	28.8	38.7	44.6	58.5	82.3	68.4	76.8	80.3	111.0	84.8
87.5°	12.4	12.4	20.8	22.8	30.7	38.2	51.1	38.7	39.7	60.0	34.7
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°	475.9	475.9	475.9	475.9	475.9	475.9	475.9	475.9	475.9	475.9	475.9
2.5°	473.9	474.4	475.4	478.3	480.3	483.3	484.8	486.8	486.8	485.8	486.3
5°	472.9	474.4	477.9	483.3	486.8	492.2	496.2	499.2	500.2	499.2	499.7
7.5°	472.4	474.9	480.8	488.8	493.7	500.7	506.1	509.6	512.1	511.1	511.6
10°	470.9	474.9	482.3	492.2	499.7	506.6	511.6	513.0	514.5	513.5	513.0
12.5°	472.9	477.4	485.3	497.2	505.6	511.1	512.6	510.1	506.6	504.6	504.1
15°	476.9	481.3	489.3	501.6	509.1	511.1	507.6	499.7	491.7	487.3	486.8
17.5°	482.3	485.3	491.7	502.6	508.6	506.1	499.2	489.7	483.8	480.3	480.8
20°	485.8	485.8	490.7	499.2	504.1	502.1	493.7	483.3	473.9	469.4	467.9
22.5°	490.7	488.3	488.8	496.2	503.1	500.2	482.3	464.0	450.6	445.6	445.1
25°	504.1	497.2	492.7	497.2	513.5	489.3	453.6	432.2	419.9	415.4	415.9
27.5°	520.5	511.1	501.6	509.1	522.0	464.5	416.9	392.6	385.2	381.7	383.2
30°	536.8	524.4	512.1	538.8	516.0	425.8	369.8	346.0	339.6	337.1	339.1
32.5°	567.1	546.8	531.9	578.5	497.7	381.7	318.7	296.9	291.0	288.0	287.0
35°	617.6	591.9	577.0	613.2	471.9	332.6	272.1	256.8	250.3	243.9	242.9
37.5°	690.5	659.3	645.9	633.0	435.7	284.0	236.4	226.0	216.6	206.7	206.2
40°	777.8	737.1	727.2	641.9	385.7	238.4	211.7	201.7	189.9	180.4	180.9
42.5°	878.4	826.3	805.0	639.5	323.7	214.1	193.8	182.9	172.5	164.1	163.6
45°	985.9	927.0	877.9	622.1	262.2	197.3	182.9	170.0	159.6	150.2	149.2
47.5°	1104.9	1039.0	945.3	588.4	216.6	185.4	176.5	158.1	148.7	142.8	142.8
50°	1224.9	1146.1	1007.3	537.3	189.9	176.5	167.1	151.7	144.2	139.3	139.3
52.5°	1327.5	1257.6	1058.3	476.4	173.0	169.0	160.6	148.7	140.8	136.3	135.8
55°	1427.1	1361.2	1103.9	415.9	159.1	159.1	159.1	146.2	137.3	133.3	132.8
57.5°	1526.3	1470.2	1151.5	376.2	146.7	150.7	156.1	143.3	134.3	130.9	130.4
60°	1638.3	1601.1	1206.5	348.5	135.8	141.8	152.2	139.8	129.4	126.4	125.9
62.5°	1757.3	1757.3	1256.6	309.3	125.9	134.3	146.2	135.3	124.9	122.4	121.9
65°	1850.4	1890.6	1288.8	250.8	116.0	126.9	139.3	129.4	119.0	118.5	117.5
67.5°	1861.3	1924.3	1268.5	189.4	107.1	119.0	132.4	122.9	113.0	113.0	111.5
70°	1783.0	1847.0	1205.0	141.8	100.6	111.0	123.4	115.0	105.6	106.6	104.1
72.5°	1652.2	1668.0	1047.4	112.0	93.2	102.6	112.5	106.1	97.7	97.7	94.2
75°	1479.7	1391.4	760.9	93.7	84.3	92.7	101.6	96.2	88.7	86.3	84.3
77.5°	1177.8	1008.3	442.2	80.8	76.8	83.3	89.2	85.3	78.8	73.4	73.4
80°	717.8	590.9	195.3	69.9	67.9	72.9	76.8	72.4	66.9	61.5	60.0
82.5°	273.1	228.0	94.7	60.0	59.5	62.5	65.4	61.0	57.0	54.5	47.1
85°	74.9	68.9	64.9	50.1	49.1	48.6	52.0	50.1	44.6	36.7	32.7
87.5°	28.3	32.2	35.2	30.7	32.7	30.2	34.7	31.7	28.3	18.3	16.4
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)