

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: P573106

Luminaire Tested: **ARCH-S-PA2-30-827-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-15)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-30-827-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 320mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3810 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

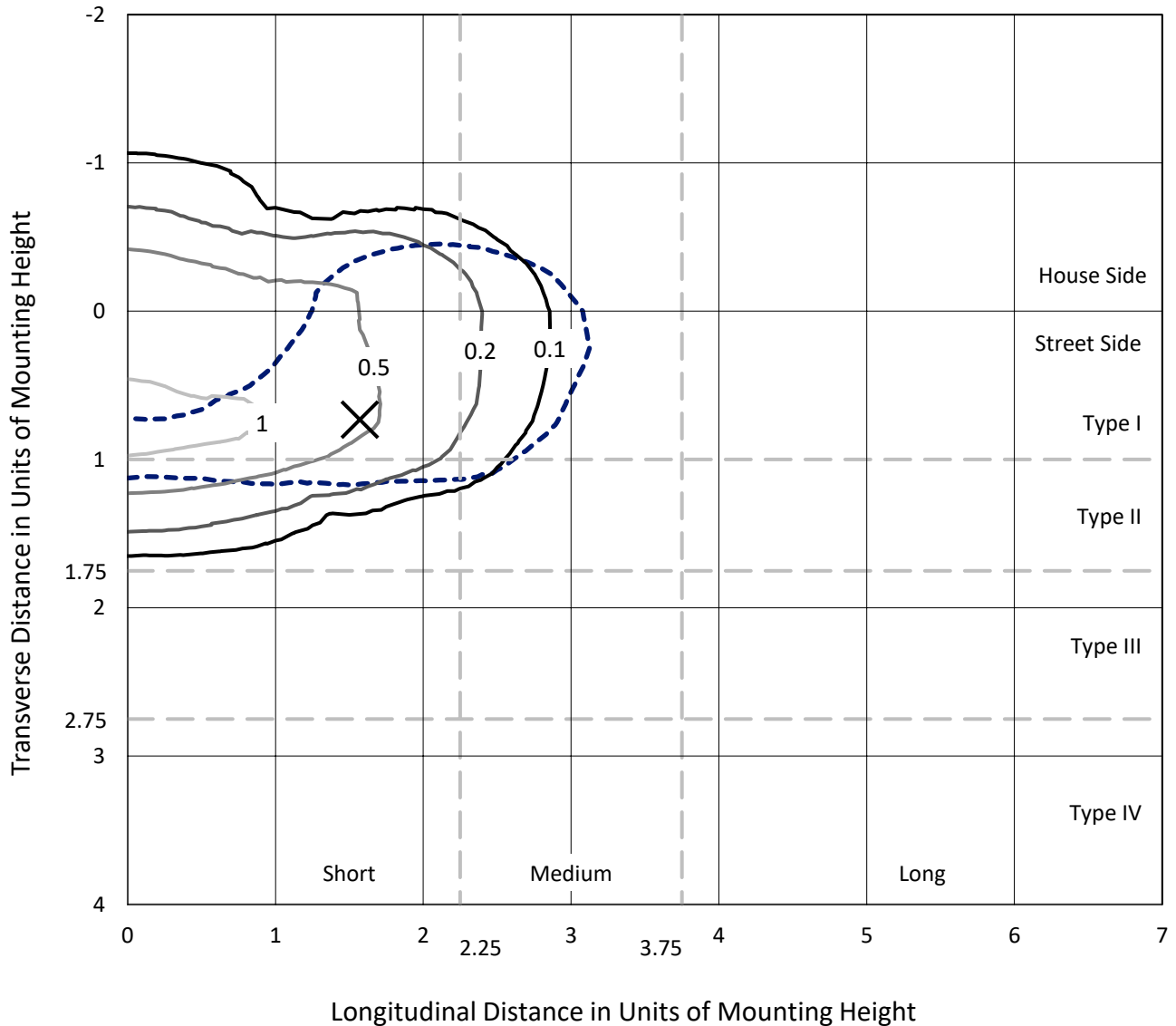
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

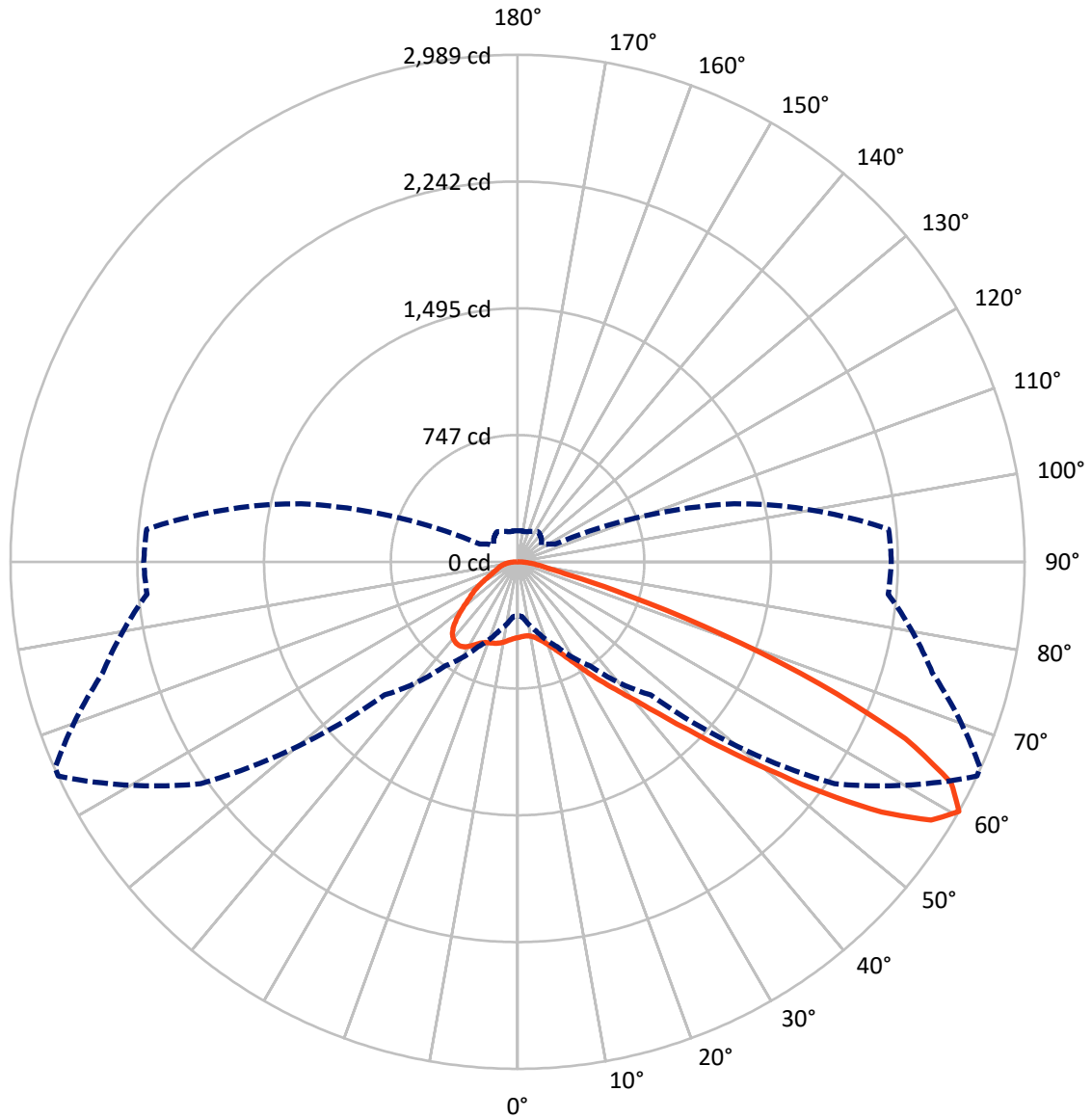
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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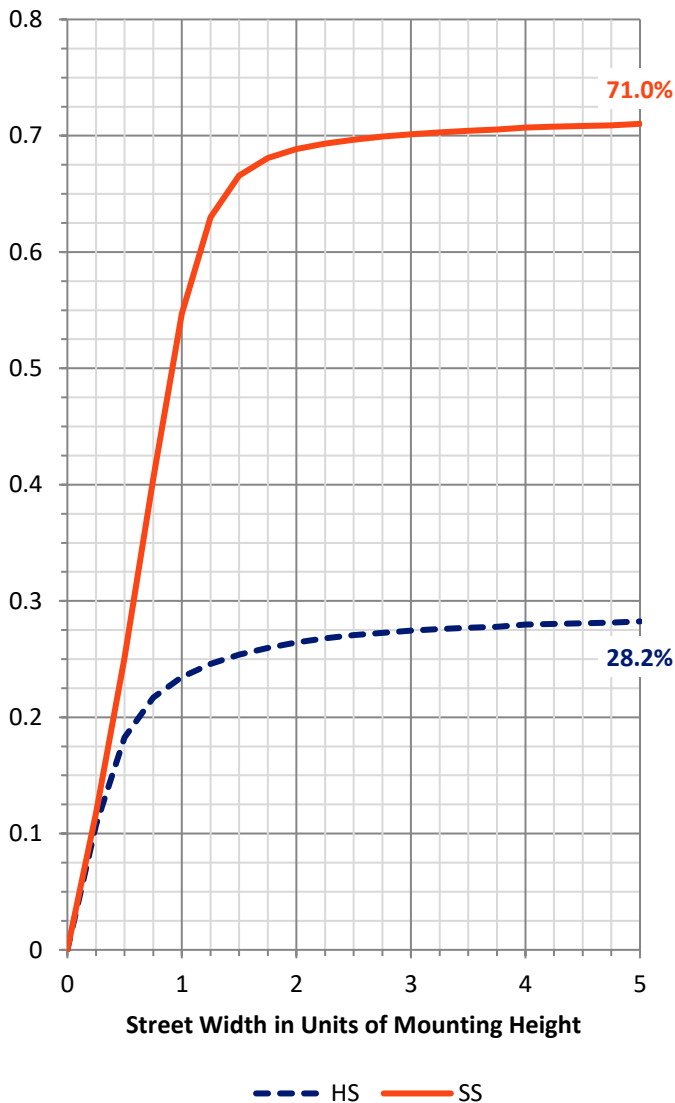
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1090.7	0.0	1090.7
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	2719.3	0.0	2719.3
	% Fixture	71.4	0.0	71.4
Total	Lumens	3810.0	0.0	3810.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	1.1
10°-20°	139.0	3.6
20°-30°	266.5	7.0
30°-40°	462.8	12.1
40°-50°	784.9	20.6
50°-60°	977.3	25.7
60°-70°	787.6	20.7
70°-80°	298.2	7.8
80°-90°	50.6	1.3
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°	3810.0	100.0
0°-180°	3810.0	100.0



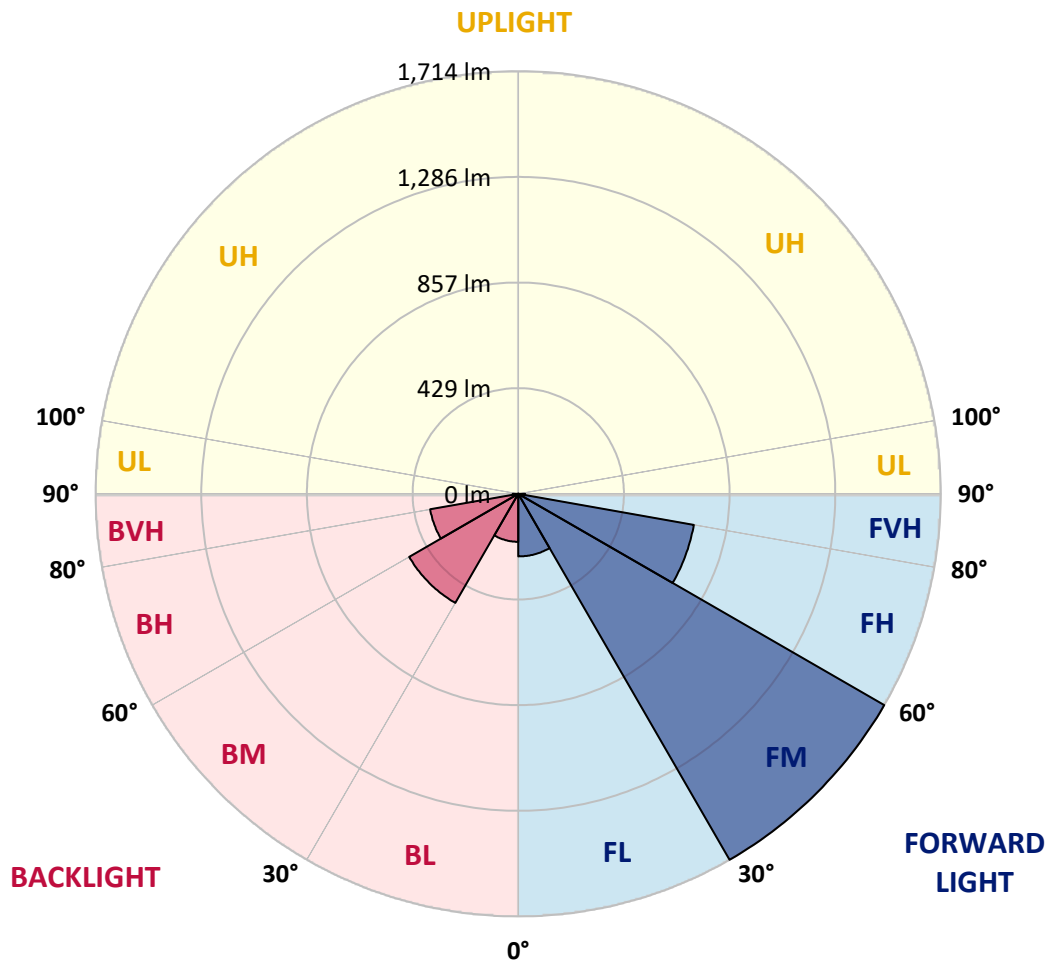
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	254.0	6.7			
FM (30°-60°)	1714.1	45.0			
FH (60°-80°)	723.1	19.0			G1/1800
FVH (80°-90°)	28.1	0.7			G1/100
BL (0°-30°)	194.7	5.1	B1/500		
BM (30°-60°)	510.9	13.4	B1/1000		
BH (60°-80°)	362.7	9.5	B1/500		G1/500
BVH (80°-90°)	22.5	0.6			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°	65°	66°	75°	85°
0°	447.0	447.0	447.0	447.0	447.0	447.0	447.0	447.0	447.0	447.0	447.0
2.5°	436.6	436.6	436.6	437.6	438.7	439.7	441.8	441.8	441.8	442.8	444.9
5°	428.2	427.2	428.2	429.3	431.4	433.4	437.6	439.7	439.7	443.9	448.1
7.5°	429.3	427.2	427.2	428.2	430.3	432.4	436.6	439.7	440.8	446.0	453.3
10°	439.7	436.6	436.6	437.6	437.6	439.7	442.8	447.0	448.1	453.3	460.6
12.5°	461.6	458.5	457.5	454.3	451.2	453.3	456.4	457.5	458.5	461.6	469.0
15°	507.6	502.4	494.0	487.8	479.4	474.2	473.1	474.2	474.2	475.2	479.4
17.5°	573.4	567.1	554.6	541.0	521.2	504.5	499.3	495.1	495.1	491.9	491.9
20°	653.8	644.4	629.8	610.0	580.7	550.4	532.7	523.3	520.1	514.9	507.6
22.5°	746.8	740.5	721.7	691.4	647.6	606.8	577.6	556.7	556.7	544.2	528.5
25°	856.5	845.0	823.0	787.5	728.0	669.5	629.8	599.5	596.4	576.5	551.5
27.5°	963.0	955.7	928.5	881.5	810.5	742.6	687.3	651.7	646.5	615.2	576.5
30°	1092.5	1084.1	1043.4	977.6	901.4	824.1	759.3	713.4	708.1	665.3	611.0
32.5°	1253.3	1225.1	1175.0	1099.8	1001.6	914.9	840.8	791.7	785.4	736.3	671.6
35°	1448.7	1424.6	1337.9	1258.6	1141.6	1027.7	939.0	874.2	865.9	807.4	725.9
37.5°	1586.5	1575.0	1515.5	1452.8	1319.1	1165.6	1057.0	967.2	958.8	881.5	776.0
40°	1673.2	1661.7	1645.0	1627.3	1553.1	1379.7	1199.0	1076.8	1063.3	990.1	876.3
42.5°	1718.1	1708.7	1711.9	1747.4	1768.3	1741.1	1401.7	1223.1	1213.7	1124.9	998.5
45°	1692.0	1685.8	1716.0	1810.0	1912.4	2112.9	1661.7	1415.2	1390.2	1284.7	1146.8
47.5°	1566.7	1547.9	1618.9	1778.7	1998.0	2290.5	1975.1	1652.3	1625.2	1473.7	1297.2
50°	1308.7	1303.5	1400.6	1603.2	1964.6	2360.5	2310.3	1932.2	1912.4	1677.4	1464.3
52.5°	1068.5	1066.4	1141.6	1327.5	1751.6	2311.4	2553.7	2265.4	2205.9	1882.1	1646.1
55°	829.3	828.3	895.1	1034.0	1397.5	2080.6	2668.6	2604.9	2561.0	2105.6	1833.0
57.5°	567.1	559.8	646.5	752.0	1049.7	1648.2	2593.4	2873.3	2846.1	2342.7	2031.5
60°	315.4	325.9	422.0	552.5	751.0	1110.3	2280.0	2989.2	2985.1	2531.8	2193.4
62.5°	223.5	227.7	268.4	392.7	494.0	636.1	1758.9	2869.1	2902.5	2636.2	2285.3
65°	185.9	188.0	207.8	290.4	361.4	367.6	1096.7	2513.0	2556.8	2603.8	2305.1
67.5°	175.5	176.5	187.0	214.1	283.0	266.3	489.9	1918.7	2011.6	2342.7	2175.6
70°	159.8	160.8	176.5	189.0	228.7	209.9	251.7	1274.2	1399.6	1851.8	1875.8
72.5°	136.8	140.0	152.5	177.6	185.9	174.4	194.3	681.0	805.3	1238.7	1448.7
75°	118.0	120.1	129.5	150.4	174.4	138.9	165.0	310.2	363.5	726.9	917.0
77.5°	95.0	96.1	109.7	123.2	146.2	112.8	128.5	185.9	195.3	355.1	414.6
80°	72.1	72.1	81.5	98.2	108.6	108.6	94.0	129.5	134.7	169.2	164.0
82.5°	55.4	54.3	61.6	68.9	78.3	90.9	71.0	85.6	87.7	102.4	87.7
85°	36.6	36.6	40.7	47.0	52.2	50.1	55.4	50.1	52.2	63.7	48.0
87.5°	15.7	15.7	21.9	20.9	23.0	24.0	27.2	24.0	24.0	29.2	21.9
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°	447.0	447.0	447.0	447.0	447.0	447.0	447.0	447.0	447.0	447.0	447.0
2.5°	446.0	447.0	449.1	450.2	453.3	454.3	454.3	456.4	456.4	458.5	458.5
5°	449.1	452.2	455.4	458.5	461.6	462.7	464.8	465.8	465.8	467.9	466.9
7.5°	455.4	458.5	464.8	467.9	472.1	474.2	473.1	474.2	473.1	474.2	474.2
10°	463.7	467.9	475.2	479.4	482.5	483.6	480.5	477.3	473.1	473.1	473.1
12.5°	473.1	476.3	485.7	488.8	490.9	487.8	479.4	473.1	470.0	471.1	470.0
15°	482.5	485.7	493.0	496.1	496.1	486.7	479.4	477.3	476.3	477.3	477.3
17.5°	491.9	495.1	501.3	501.3	498.2	490.9	483.6	476.3	471.1	467.9	467.9
20°	504.5	504.5	506.6	506.6	505.5	494.0	476.3	458.5	448.1	441.8	440.8
22.5°	521.2	517.0	512.8	512.8	517.0	486.7	452.2	425.1	408.4	406.3	402.1
25°	538.9	529.5	519.1	526.4	519.1	467.9	418.8	382.3	362.4	355.1	357.2
27.5°	557.7	543.1	527.5	548.3	508.7	431.4	371.8	331.1	312.3	307.1	307.1
30°	583.9	561.9	538.9	571.3	488.8	389.6	316.5	287.2	276.8	272.6	271.6
32.5°	634.0	600.6	567.1	592.2	466.9	335.3	278.9	261.1	248.6	244.4	247.5
35°	678.9	631.9	610.0	601.6	432.4	291.4	255.9	240.2	229.8	224.6	224.6
37.5°	719.6	674.7	658.0	601.6	387.5	264.2	241.3	228.7	215.2	211.0	211.0
40°	808.4	748.9	719.6	593.3	332.1	250.7	234.0	219.3	207.8	203.7	202.6
42.5°	930.6	850.2	783.3	574.5	285.1	244.4	229.8	213.1	203.7	200.5	199.5
45°	1060.1	989.1	843.9	541.0	254.8	238.1	228.7	211.0	199.5	196.4	195.3
47.5°	1216.8	1143.7	913.9	489.9	234.0	234.0	227.7	207.8	197.4	194.3	194.3
50°	1390.2	1329.6	1002.7	431.4	218.3	230.8	225.6	207.8	196.4	193.2	192.2
52.5°	1567.7	1539.5	1095.6	373.9	202.6	226.6	224.6	207.8	194.3	191.1	191.1
55°	1793.3	1770.4	1203.2	331.1	190.1	218.3	224.6	205.8	191.1	189.0	189.0
57.5°	2014.8	2006.4	1286.8	293.5	180.7	207.8	221.4	202.6	188.0	187.0	187.0
60°	2203.8	2195.4	1322.3	246.5	171.3	197.4	215.2	197.4	182.8	183.8	183.8
62.5°	2320.8	2272.7	1296.2	203.7	161.9	188.0	207.8	191.1	177.6	180.7	179.6
65°	2341.7	2229.9	1194.9	170.2	151.4	177.6	199.5	183.8	170.2	177.6	176.5
67.5°	2188.1	2002.2	1004.8	148.3	141.0	166.1	190.1	173.4	161.9	172.3	169.2
70°	1856.0	1626.2	743.7	131.6	130.6	152.5	177.6	160.8	150.4	155.6	151.4
72.5°	1381.8	1174.0	481.5	119.1	119.1	136.8	159.8	145.2	134.7	135.8	131.6
75°	861.7	721.7	273.6	107.6	107.6	121.2	142.0	127.4	120.1	115.9	121.2
77.5°	391.7	317.5	144.1	96.1	97.1	103.4	122.2	108.6	100.3	94.0	97.1
80°	145.2	129.5	94.0	82.5	84.6	85.6	98.2	86.7	79.4	75.2	73.1
82.5°	75.2	70.0	63.7	65.8	68.9	65.8	76.2	64.8	56.4	53.3	44.9
85°	37.6	36.6	38.6	43.9	48.0	40.7	46.0	41.8	34.5	25.1	25.1
87.5°	14.6	15.7	14.6	19.8	21.9	18.8	20.9	14.6	10.4	5.2	4.2
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)