

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: P573065

Luminaire Tested: **ARCH-S-PA2-30-730-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-19)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-30-730-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 320mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4761 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

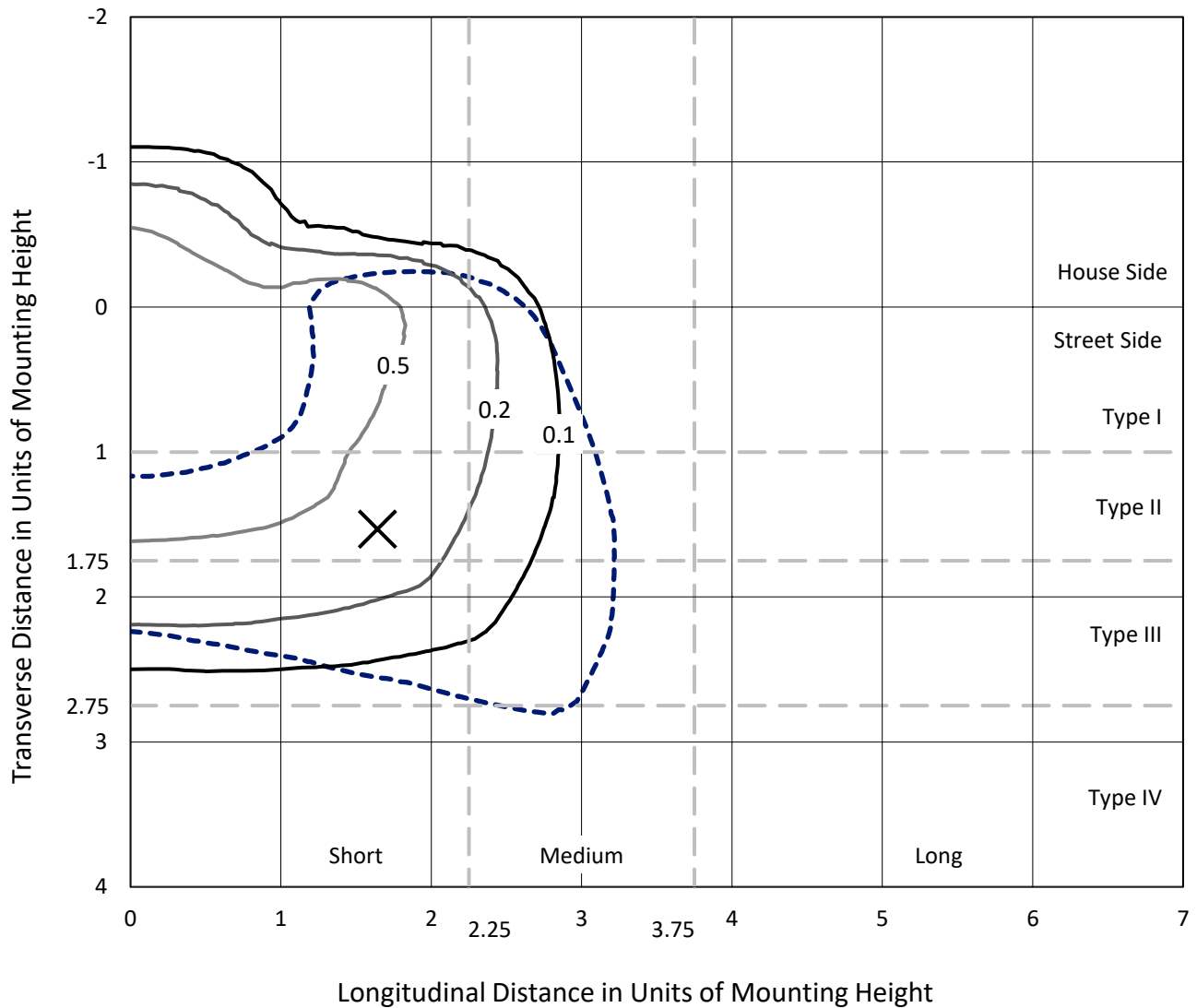
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

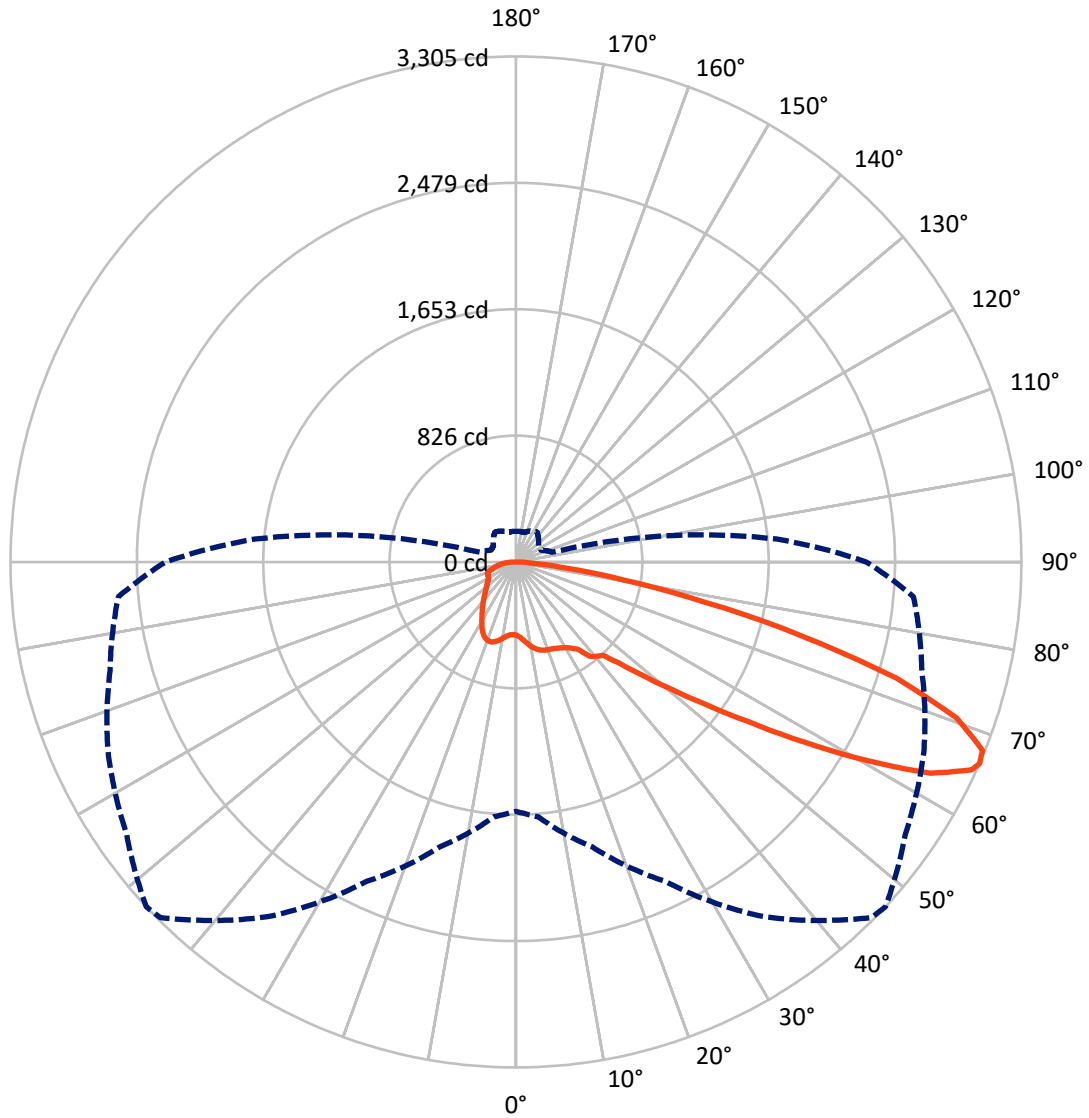
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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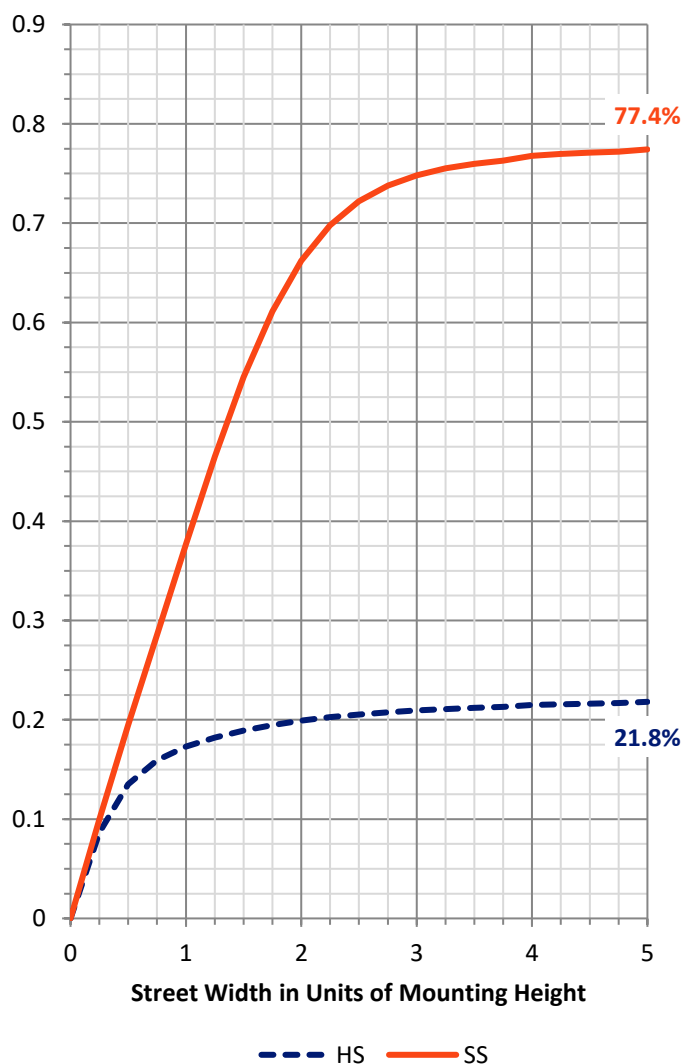
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1058.5	0.0	1058.5
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	3702.5	0.0	3702.5
	% Fixture	77.8	0.0	77.8
Total	Lumens	4761.0	0.0	4761.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	1.0
10°-20°	159.8	3.4
20°-30°	266.5	5.6
30°-40°	387.0	8.1
40°-50°	591.9	12.4
50°-60°	1118.8	23.5
60°-70°	1445.7	30.4
70°-80°	649.8	13.6
80°-90°	92.7	1.9
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°	4761.0	100.0
0°-180°	4761.0	100.0

Coefficient of Utilization

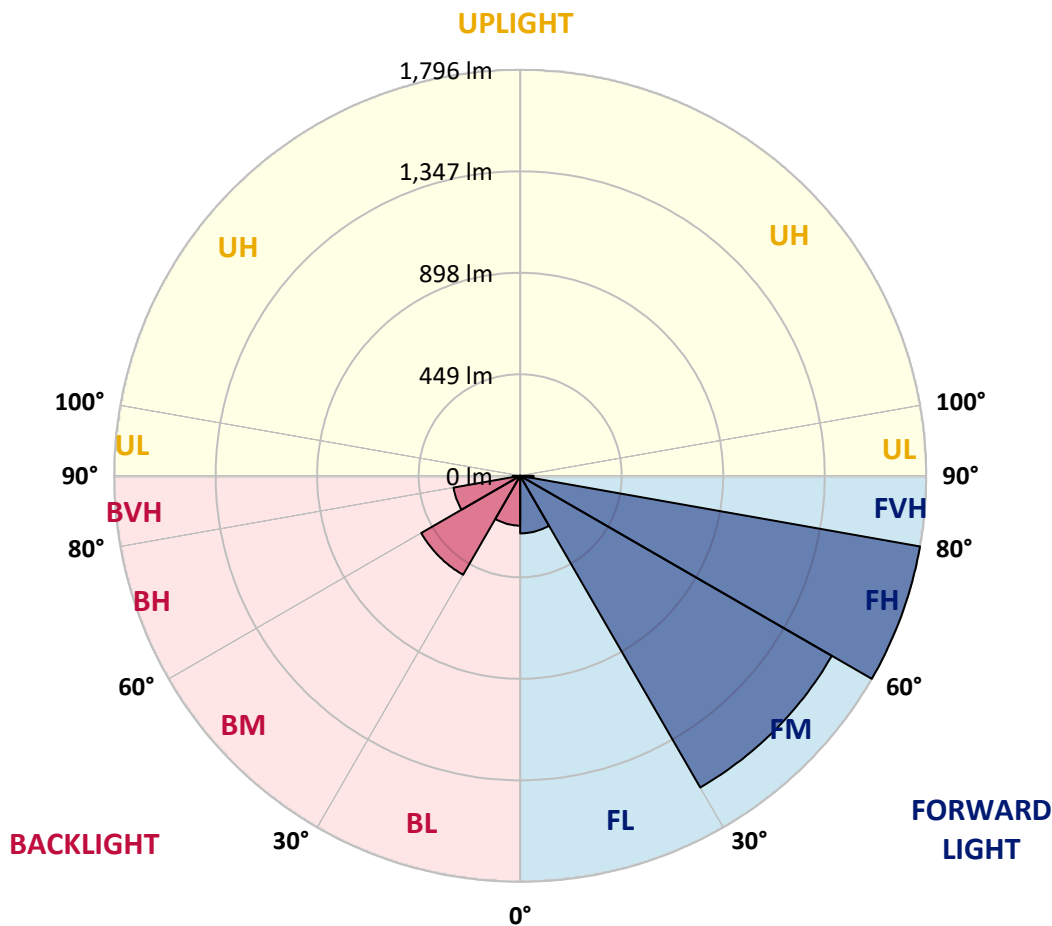


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	254.7	5.4			
FM (30°-60°)	1592.2	33.4			
FH (60°-80°)	1796.0	37.7			G1/1800
FVH (80°-90°)	59.6	1.3			G1/100
BL (0°-30°)	220.3	4.6	B1/500		
BM (30°-60°)	505.6	10.6	B1/1000		
BH (60°-80°)	299.5	6.3	B1/500		G1/500
BVH (80°-90°)	33.1	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6
2.5°	505.8	501.9	499.3	498.0	495.4	490.3	490.3	489.0	483.8	481.2	479.9
5°	545.9	543.3	536.8	531.7	523.9	513.6	512.3	504.5	494.1	486.4	481.2
7.5°	584.7	582.1	575.6	567.9	554.9	542.0	538.1	527.8	511.0	499.3	490.3
10°	618.3	614.5	606.7	596.3	582.1	567.9	564.0	552.4	535.5	518.7	503.2
12.5°	640.3	637.7	628.7	615.7	600.2	586.0	583.4	573.1	556.2	538.1	518.7
15°	650.7	649.4	639.0	626.1	610.6	598.9	597.6	588.6	574.4	556.2	534.2
17.5°	648.1	646.8	637.7	624.8	613.2	606.7	606.7	600.2	588.6	573.1	549.8
20°	635.1	635.1	627.4	618.3	611.9	610.6	610.6	609.3	601.5	588.6	565.3
22.5°	622.2	622.2	617.0	610.6	609.3	614.5	615.7	618.3	615.7	605.4	584.7
25°	624.8	623.5	617.0	609.3	610.6	622.2	624.8	631.3	630.0	622.2	604.1
27.5°	653.3	652.0	635.1	619.6	618.3	632.6	635.1	644.2	644.2	637.7	626.1
30°	724.4	727.0	695.9	657.1	637.7	646.8	649.4	659.7	664.9	667.5	658.4
32.5°	833.1	829.2	782.6	719.2	676.5	667.5	671.4	680.4	698.5	703.7	681.7
35°	943.0	945.6	900.3	820.1	738.6	705.0	702.4	715.4	742.5	719.2	680.4
37.5°	1045.2	1041.3	988.3	901.6	820.1	781.3	782.6	777.4	754.2	707.6	689.5
40°	1156.5	1146.1	1102.1	990.9	887.4	822.7	811.1	767.1	747.7	728.3	725.7
42.5°	1266.4	1267.7	1231.5	1121.5	967.6	852.5	834.4	789.1	802.0	798.1	795.6
45°	1404.8	1404.8	1368.6	1266.4	1094.4	963.7	939.1	884.8	905.5	921.0	952.1
47.5°	1531.6	1523.8	1513.5	1426.8	1259.9	1108.6	1098.3	1036.2	1090.5	1138.4	1201.7
50°	1666.1	1655.8	1649.3	1596.3	1477.3	1328.5	1297.5	1232.8	1351.8	1441.1	1558.8
52.5°	1875.7	1857.6	1824.0	1794.2	1747.6	1575.6	1536.8	1488.9	1642.8	1755.4	1996.0
55°	2064.6	2049.0	2016.7	2038.7	2032.2	1875.7	1842.1	1796.8	1963.7	2100.8	2376.3
57.5°	2134.4	2135.7	2179.7	2297.4	2359.5	2268.9	2221.1	2175.8	2316.8	2380.2	2628.6
60°	2166.7	2162.9	2276.7	2468.2	2670.0	2697.1	2636.3	2543.2	2596.2	2600.1	2842.0
62.5°	2096.9	2107.2	2263.8	2539.3	2856.2	3051.6	3042.5	2879.5	2830.4	2776.0	2898.9
65°	1831.7	1845.9	2076.2	2412.5	2886.0	3266.3	3275.3	3085.2	2948.1	2796.7	2737.2
66°	1629.9	1672.6	1928.7	2302.6	2831.7	3288.3	3305.1	3107.2	2942.9	2747.6	2609.2
67.5°	1367.3	1364.7	1650.6	2060.7	2680.3	3268.9	3290.9	3076.1	2873.0	2602.7	2353.0
70°	836.9	862.8	1108.6	1538.1	2218.5	3027.0	3056.7	2857.5	2571.6	2204.3	1739.9
72.5°	429.5	472.2	633.9	999.9	1610.5	2501.8	2602.7	2399.6	2102.1	1595.0	1062.0
75°	227.7	225.1	298.8	542.0	1028.4	1877.0	1930.0	1799.4	1452.7	950.8	540.7
77.5°	121.6	128.1	156.5	278.1	565.3	1199.2	1266.4	1160.3	827.9	486.4	258.7
80°	82.8	86.7	106.1	156.5	306.6	650.7	712.8	618.3	433.3	230.3	121.6
82.5°	53.0	55.6	72.4	97.0	183.7	315.6	332.5	316.9	212.1	130.7	73.7
85°	32.3	33.6	44.0	62.1	115.1	128.1	133.2	134.5	119.0	85.4	40.1
87.5°	15.5	16.8	24.6	31.0	54.3	46.6	42.7	44.0	66.0	50.4	18.1
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°	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6
2.5°	478.6	477.3	474.7	473.5	474.7	474.7	474.7	476.0	478.6	478.6	479.9
5°	478.6	476.0	473.5	473.5	476.0	478.6	481.2	486.4	489.0	490.3	490.3
7.5°	485.1	482.5	479.9	479.9	483.8	489.0	494.1	500.6	507.1	512.3	512.3
10°	498.0	494.1	491.6	492.9	499.3	505.8	512.3	520.0	526.5	533.0	533.0
12.5°	512.3	508.4	504.5	507.1	516.1	523.9	530.4	534.2	540.7	545.9	545.9
15°	526.5	520.0	518.7	523.9	533.0	538.1	540.7	540.7	543.3	548.5	548.5
17.5°	542.0	535.5	534.2	539.4	547.2	547.2	542.0	538.1	536.8	540.7	542.0
20°	557.5	551.1	551.1	554.9	553.7	544.6	535.5	529.1	523.9	527.8	529.1
22.5°	576.9	570.5	567.9	562.7	551.1	533.0	518.7	511.0	507.1	509.7	512.3
25°	596.3	591.2	584.7	566.6	539.4	511.0	492.9	486.4	487.7	492.9	495.4
27.5°	620.9	618.3	602.8	564.0	518.7	479.9	461.8	460.5	465.7	473.5	477.3
30°	650.7	646.8	619.6	556.2	490.3	443.7	430.8	433.3	441.1	447.6	451.5
32.5°	671.4	668.8	627.4	538.1	455.3	411.4	401.0	401.0	404.9	413.9	417.8
35°	677.8	688.2	632.6	511.0	413.9	382.9	372.6	366.1	366.1	373.8	376.4
37.5°	699.8	723.1	635.1	474.7	380.3	357.0	344.1	332.5	328.6	327.3	327.3
40°	750.3	777.4	633.9	428.2	348.0	331.2	315.6	302.7	292.3	278.1	279.4
42.5°	838.2	858.9	630.0	379.0	319.5	307.9	292.3	276.8	260.0	244.5	243.2
45°	1007.7	976.7	619.6	336.3	293.6	287.2	272.9	254.8	234.1	219.9	219.9
47.5°	1275.5	1190.1	613.2	296.2	270.4	269.1	256.1	236.7	216.0	205.7	204.4
50°	1642.8	1485.0	623.5	267.8	249.7	253.5	243.2	225.1	208.3	199.2	197.9
52.5°	2064.6	1802.0	635.1	249.7	234.1	241.9	236.7	219.9	203.1	195.3	194.0
55°	2390.5	2059.4	618.3	232.8	218.6	230.3	230.3	214.7	200.5	192.7	192.7
57.5°	2619.5	2162.9	560.1	217.3	205.7	219.9	223.8	212.1	199.2	196.6	196.6
60°	2717.8	2157.7	457.9	203.1	196.6	209.6	219.9	209.6	201.8	208.3	209.6
62.5°	2664.8	2045.2	355.7	192.7	190.2	207.0	223.8	219.9	210.9	216.0	218.6
65°	2425.5	1847.2	267.8	183.7	182.4	208.3	234.1	226.4	204.4	205.7	207.0
66°	2290.9	1714.0	245.8	181.1	179.8	209.6	239.3	223.8	199.2	201.8	200.5
67.5°	2003.8	1504.4	216.0	175.9	174.6	209.6	245.8	218.6	192.7	196.6	192.7
70°	1469.5	1064.6	185.0	169.5	166.9	205.7	244.5	208.3	178.5	175.9	169.5
72.5°	852.5	644.2	164.3	161.7	155.2	181.1	229.0	191.5	163.0	155.2	148.8
75°	419.1	327.3	146.2	152.6	135.8	159.1	207.0	177.2	150.1	139.7	135.8
77.5°	192.7	165.6	131.9	139.7	120.3	137.1	188.9	161.7	133.2	117.7	113.8
80°	104.8	103.5	111.2	116.4	100.9	120.3	166.9	141.0	112.5	95.7	90.6
82.5°	64.7	66.0	81.5	89.3	78.9	104.8	147.5	117.7	85.4	67.3	68.6
85°	33.6	37.5	54.3	59.5	51.7	77.6	111.2	78.9	47.9	34.9	34.9
87.5°	11.6	15.5	27.2	32.3	28.5	46.6	69.9	37.5	10.3	0.0	0.0
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)