

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: P573119

Luminaire Tested: **ARCH-S-PA2-30-830-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573119
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-PA2-30-830-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 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: 4155 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

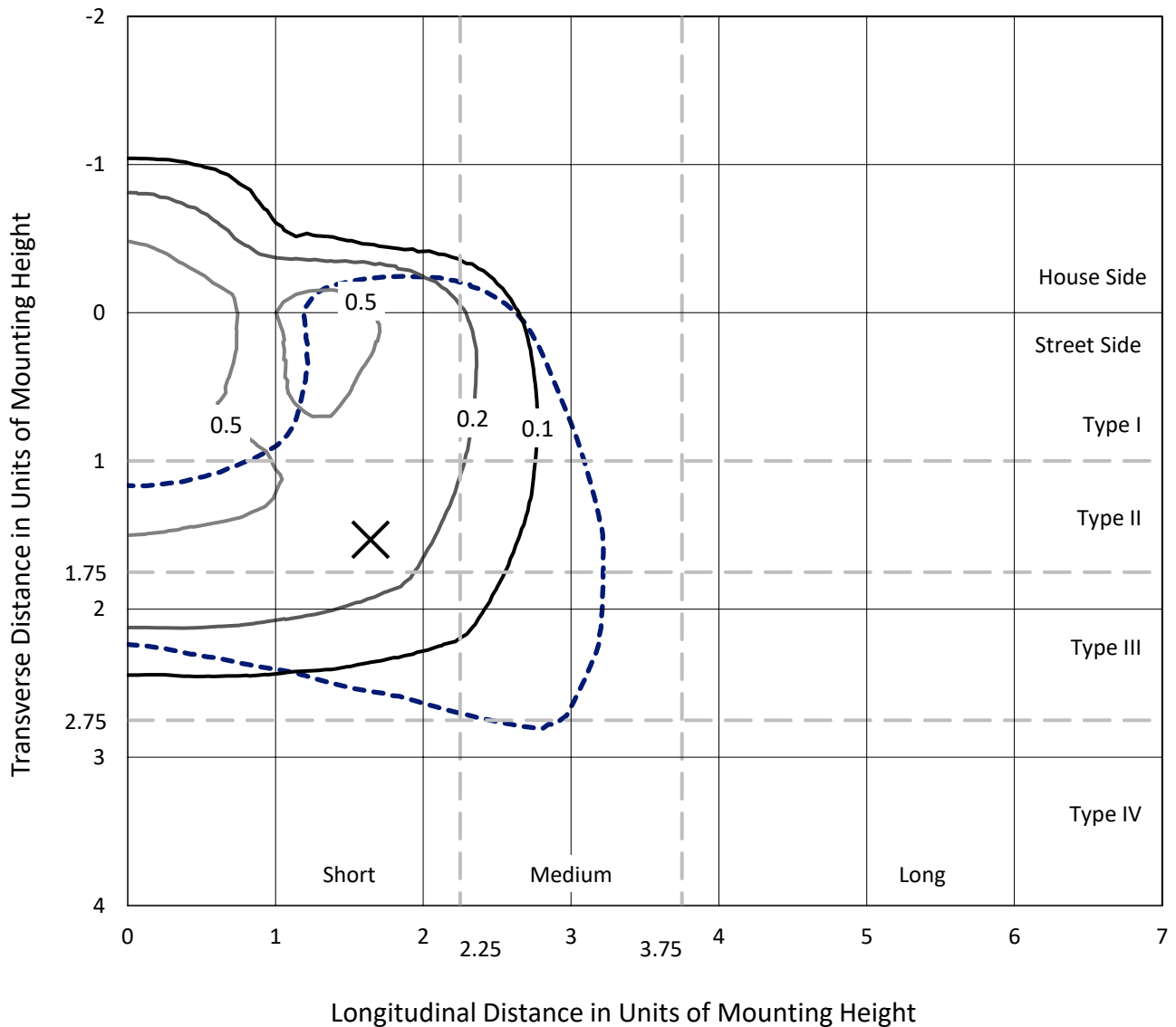
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

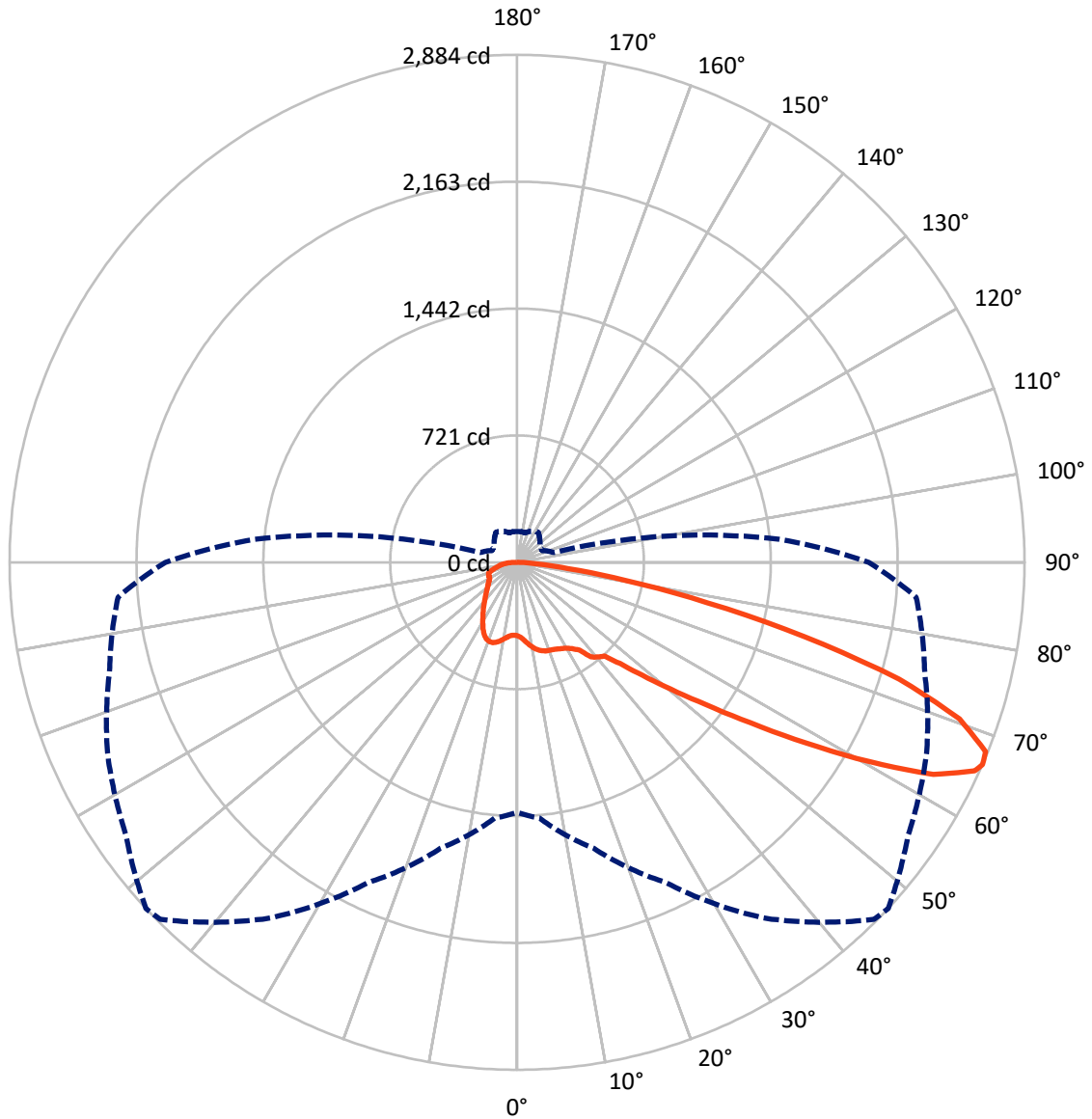
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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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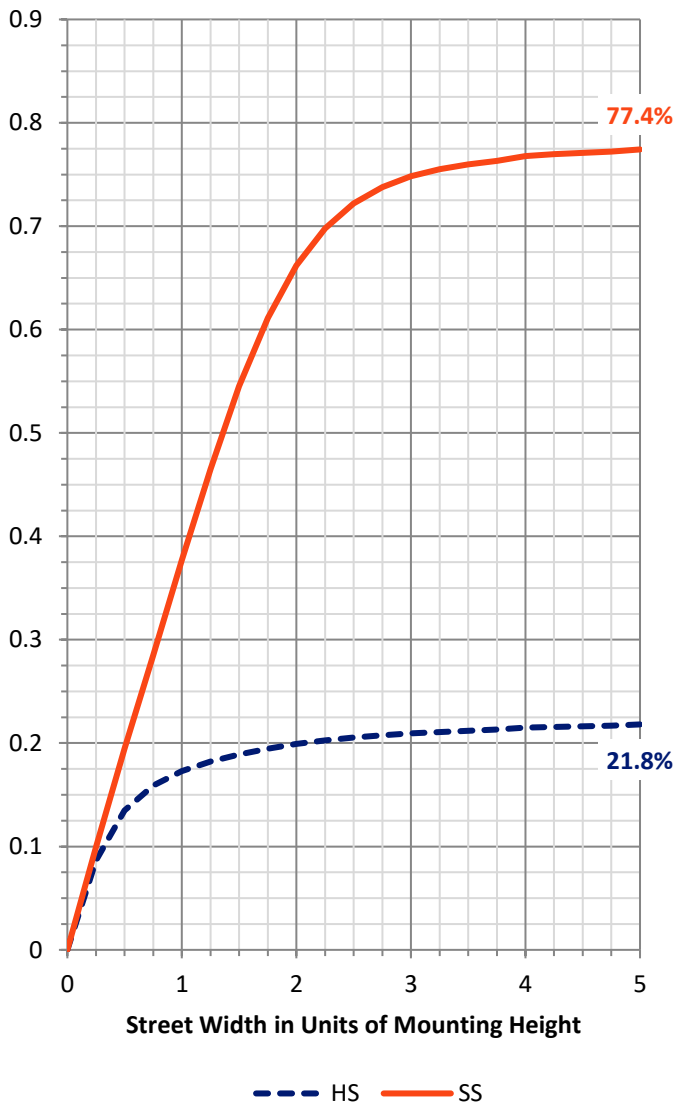
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	923.8	0.0	923.8
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	3231.2	0.0	3231.2
	% Fixture	77.8	0.0	77.8
Total	Lumens	4155.0	0.0	4155.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.5	1.0
10°-20°	139.5	3.4
20°-30°	232.6	5.6
30°-40°	337.8	8.1
40°-50°	516.6	12.4
50°-60°	976.4	23.5
60°-70°	1261.7	30.4
70°-80°	567.1	13.6
80°-90°	80.9	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°	4155.0	100.0
0°-180°	4155.0	100.0

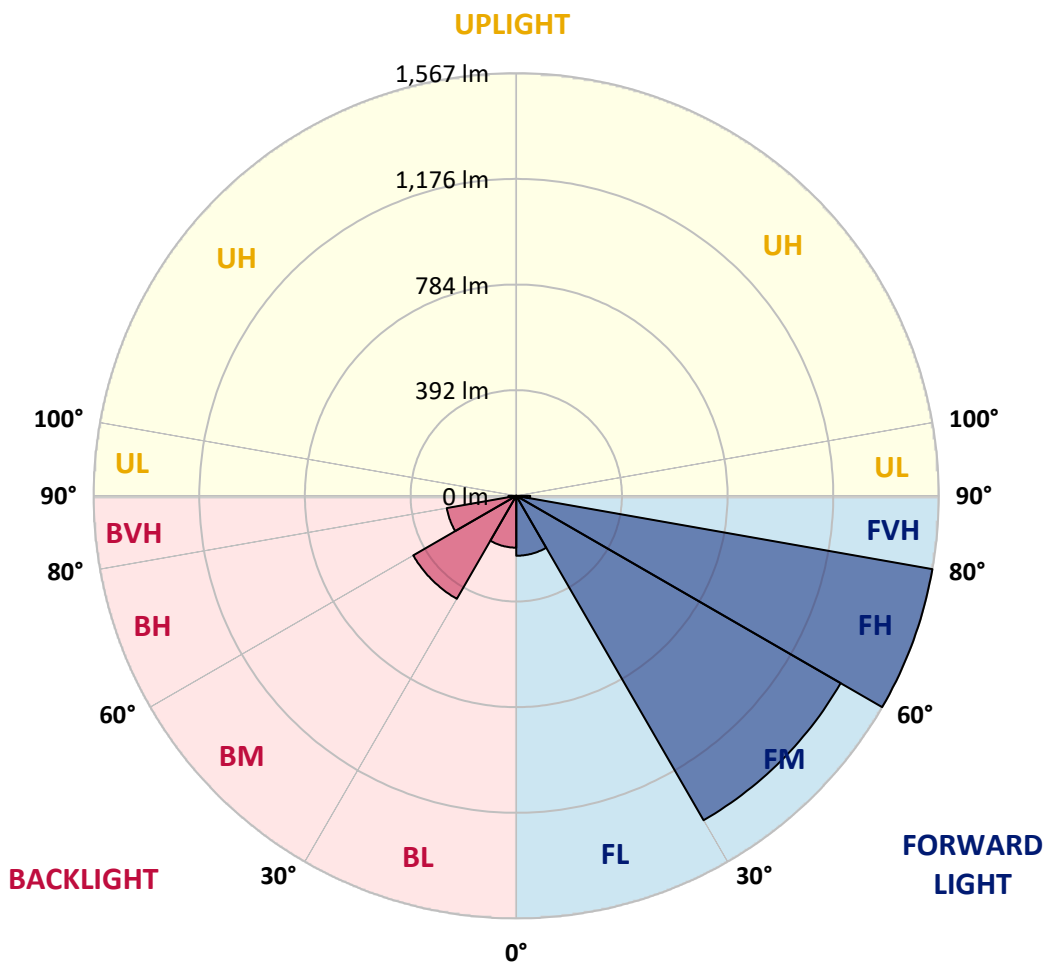


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	222.3	5.4			
FM (30°-60°)	1389.5	33.4			
FH (60°-80°)	1567.4	37.7			G1/1800
FVH (80°-90°)	52.0	1.3			G1/100
BL (0°-30°)	192.2	4.6	B1/500		
BM (30°-60°)	441.2	10.6	B1/1000		
BH (60°-80°)	261.4	6.3	B1/500		G1/500
BVH (80°-90°)	28.9	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°	417.7	417.7	417.7	417.7	417.7	417.7	417.7	417.7	417.7	417.7	417.7
2.5°	441.4	438.0	435.8	434.6	432.4	427.9	427.9	426.7	422.2	420.0	418.8
5°	476.4	474.2	468.5	464.0	457.2	448.2	447.1	440.3	431.3	424.5	420.0
7.5°	510.3	508.0	502.4	495.6	484.3	473.0	469.6	460.6	445.9	435.8	427.9
10°	539.6	536.2	529.5	520.4	508.0	495.6	492.2	482.1	467.4	452.7	439.2
12.5°	558.8	556.6	548.7	537.4	523.8	511.4	509.1	500.1	485.4	469.6	452.7
15°	567.9	566.7	557.7	546.4	532.9	522.7	521.6	513.7	501.2	485.4	466.2
17.5°	565.6	564.5	556.6	545.3	535.1	529.5	529.5	523.8	513.7	500.1	479.8
20°	554.3	554.3	547.5	539.6	534.0	532.9	532.9	531.7	525.0	513.7	493.3
22.5°	543.0	543.0	538.5	532.9	531.7	536.2	537.4	539.6	537.4	528.3	510.3
25°	545.3	544.1	538.5	531.7	532.9	543.0	545.3	550.9	549.8	543.0	527.2
27.5°	570.1	569.0	554.3	540.8	539.6	552.0	554.3	562.2	562.2	556.6	546.4
30°	632.2	634.5	607.4	573.5	556.6	564.5	566.7	575.8	580.3	582.5	574.6
32.5°	727.0	723.6	683.0	627.7	590.4	582.5	585.9	593.8	609.6	614.1	594.9
35°	823.0	825.2	785.7	715.7	644.6	615.3	613.0	624.3	648.0	627.7	593.8
37.5°	912.2	908.8	862.5	786.9	715.7	681.9	683.0	678.5	658.2	617.5	601.7
40°	1009.3	1000.2	961.8	864.8	774.4	718.0	707.8	669.5	652.5	635.6	633.3
42.5°	1105.2	1106.4	1074.7	978.8	844.4	744.0	728.2	688.6	699.9	696.5	694.3
45°	1226.0	1226.0	1194.4	1105.2	955.1	841.1	819.6	772.2	790.3	803.8	830.9
47.5°	1336.7	1329.9	1320.8	1245.2	1099.6	967.5	958.5	904.3	951.7	993.5	1048.8
50°	1454.1	1445.0	1439.4	1393.1	1289.2	1159.4	1132.3	1075.9	1179.7	1257.6	1360.4
52.5°	1636.9	1621.1	1591.8	1565.8	1525.2	1375.0	1341.2	1299.4	1433.7	1532.0	1741.9
55°	1801.8	1788.2	1760.0	1779.2	1773.5	1636.9	1607.6	1568.1	1713.7	1833.4	2073.8
57.5°	1862.7	1863.9	1902.2	2005.0	2059.2	1980.1	1938.4	1898.9	2021.9	2077.2	2294.0
60°	1891.0	1887.6	1986.9	2154.0	2330.1	2353.8	2300.8	2219.5	2265.8	2269.1	2480.3
62.5°	1830.0	1839.0	1975.6	2216.1	2492.7	2663.1	2655.2	2513.0	2470.1	2422.7	2529.9
65°	1598.6	1611.0	1811.9	2105.5	2518.6	2850.5	2858.4	2692.5	2572.8	2440.7	2388.8
66°	1422.5	1459.7	1683.2	2009.5	2471.2	2869.7	2884.4	2711.7	2568.3	2397.8	2277.1
67.5°	1193.3	1191.0	1440.5	1798.4	2339.1	2852.8	2872.0	2684.6	2507.4	2271.4	2053.5
70°	730.4	753.0	967.5	1342.3	1936.1	2641.7	2667.7	2493.8	2244.3	1923.7	1518.4
72.5°	374.8	412.1	553.2	872.7	1405.5	2183.3	2271.4	2094.2	1834.5	1392.0	926.9
75°	198.7	196.4	260.8	473.0	897.5	1638.1	1684.4	1570.3	1267.8	829.8	471.9
77.5°	106.1	111.8	136.6	242.7	493.3	1046.5	1105.2	1012.6	722.5	424.5	225.8
80°	72.3	75.6	92.6	136.6	267.6	567.9	622.0	539.6	378.2	200.9	106.1
82.5°	46.3	48.5	63.2	84.7	160.3	275.5	290.1	276.6	185.1	114.0	64.3
85°	28.2	29.4	38.4	54.2	100.5	111.8	116.3	117.4	103.9	74.5	35.0
87.5°	13.5	14.7	21.4	27.1	47.4	40.6	37.3	38.4	57.6	44.0	15.8
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°	417.7	417.7	417.7	417.7	417.7	417.7	417.7	417.7	417.7	417.7	417.7
2.5°	417.7	416.6	414.3	413.2	414.3	414.3	414.3	415.4	417.7	417.7	418.8
5°	417.7	415.4	413.2	413.2	415.4	417.7	420.0	424.5	426.7	427.9	427.9
7.5°	423.3	421.1	418.8	418.8	422.2	426.7	431.3	436.9	442.5	447.1	447.1
10°	434.6	431.3	429.0	430.1	435.8	441.4	447.1	453.8	459.5	465.1	465.1
12.5°	447.1	443.7	440.3	442.5	450.4	457.2	462.9	466.2	471.9	476.4	476.4
15°	459.5	453.8	452.7	457.2	465.1	469.6	471.9	471.9	474.2	478.7	478.7
17.5°	473.0	467.4	466.2	470.8	477.5	477.5	473.0	469.6	468.5	471.9	473.0
20°	486.6	480.9	480.9	484.3	483.2	475.3	467.4	461.7	457.2	460.6	461.7
22.5°	503.5	497.9	495.6	491.1	480.9	465.1	452.7	445.9	442.5	444.8	447.1
25°	520.4	515.9	510.3	494.5	470.8	445.9	430.1	424.5	425.6	430.1	432.4
27.5°	541.9	539.6	526.1	492.2	452.7	418.8	403.0	401.9	406.4	413.2	416.6
30°	567.9	564.5	540.8	485.4	427.9	387.2	375.9	378.2	385.0	390.6	394.0
32.5°	585.9	583.7	547.5	469.6	397.4	359.0	350.0	350.0	353.4	361.3	364.6
35°	591.6	600.6	552.0	445.9	361.3	334.2	325.1	319.5	319.5	326.3	328.5
37.5°	610.8	631.1	554.3	414.3	331.9	311.6	300.3	290.1	286.7	285.6	285.6
40°	654.8	678.5	553.2	373.7	303.7	289.0	275.5	264.2	255.1	242.7	243.8
42.5°	731.5	749.6	549.8	330.8	278.8	268.7	255.1	241.6	226.9	213.4	212.2
45°	879.4	852.3	540.8	293.5	256.3	250.6	238.2	222.4	204.3	191.9	191.9
47.5°	1113.1	1038.6	535.1	258.5	235.9	234.8	223.5	206.6	188.5	179.5	178.4
50°	1433.7	1296.0	544.1	233.7	217.9	221.3	212.2	196.4	181.8	173.9	172.7
52.5°	1801.8	1572.6	554.3	217.9	204.3	211.1	206.6	191.9	177.2	170.5	169.3
55°	2086.3	1797.3	539.6	203.2	190.8	200.9	200.9	187.4	175.0	168.2	168.2
57.5°	2286.1	1887.6	488.8	189.7	179.5	191.9	195.3	185.1	173.9	171.6	171.6
60°	2371.9	1883.1	399.6	177.2	171.6	182.9	191.9	182.9	176.1	181.8	182.9
62.5°	2325.6	1784.8	310.5	168.2	166.0	180.6	195.3	191.9	184.0	188.5	190.8
65°	2116.7	1612.1	233.7	160.3	159.2	181.8	204.3	197.6	178.4	179.5	180.6
66°	1999.3	1495.8	214.5	158.1	156.9	182.9	208.9	195.3	173.9	176.1	175.0
67.5°	1748.7	1312.9	188.5	153.5	152.4	182.9	214.5	190.8	168.2	171.6	168.2
70°	1282.5	929.1	161.4	147.9	145.6	179.5	213.4	181.8	155.8	153.5	147.9
72.5°	744.0	562.2	143.4	141.1	135.5	158.1	199.8	167.1	142.2	135.5	129.8
75°	365.8	285.6	127.6	133.2	118.5	138.9	180.6	154.7	131.0	121.9	118.5
77.5°	168.2	144.5	115.2	121.9	105.0	119.7	164.8	141.1	116.3	102.7	99.3
80°	91.4	90.3	97.1	101.6	88.1	105.0	145.6	123.1	98.2	83.5	79.0
82.5°	56.4	57.6	71.1	77.9	68.9	91.4	128.7	102.7	74.5	58.7	59.8
85°	29.4	32.7	47.4	51.9	45.2	67.7	97.1	68.9	41.8	30.5	30.5
87.5°	10.2	13.5	23.7	28.2	24.8	40.6	61.0	32.7	9.0	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)