

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: P573091

Luminaire Tested: **ARCH-S-PA2-30-750-U-T4W-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-20)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-30-750-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 320mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3846 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

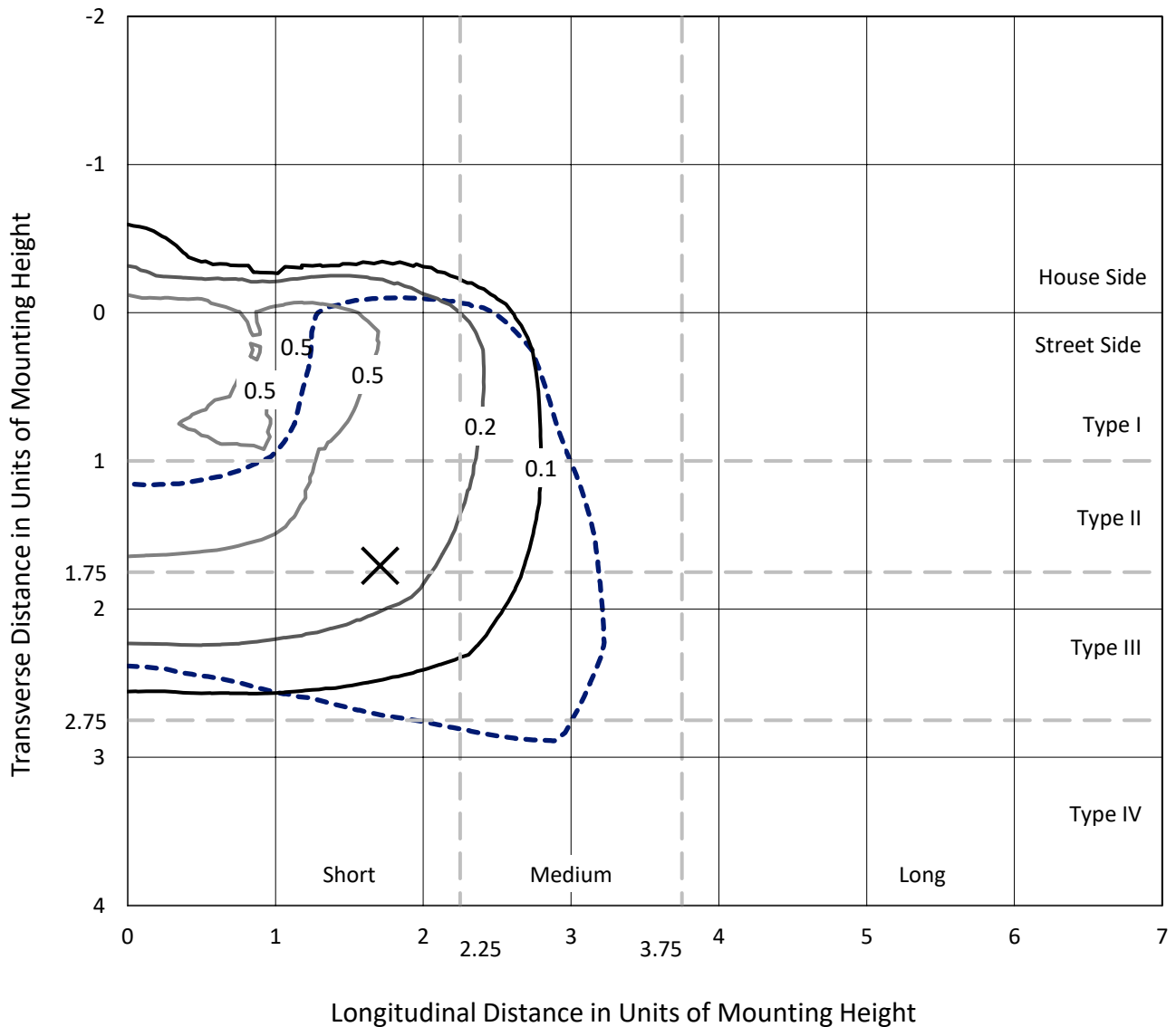
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

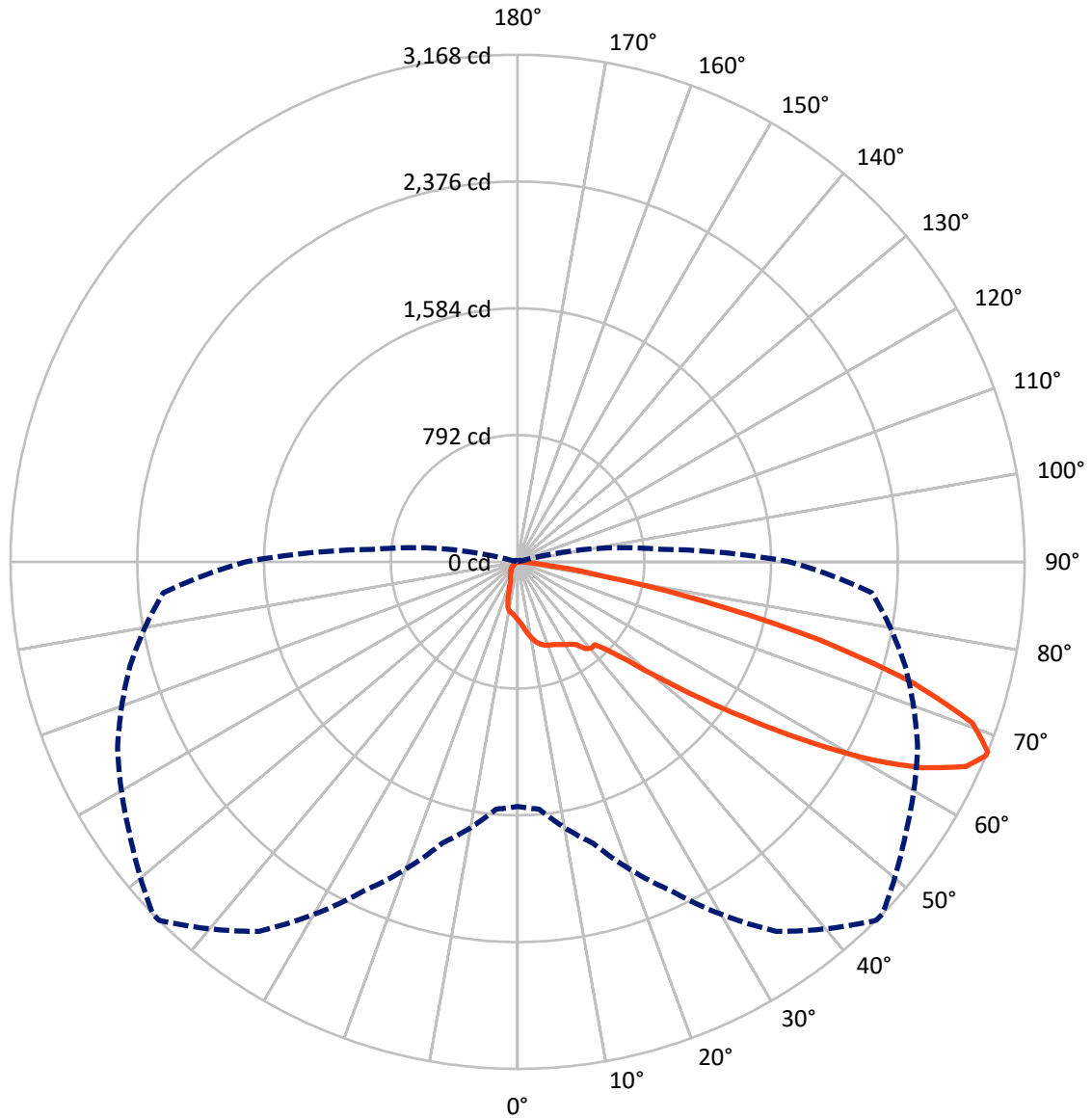
× Max cd
 - - - 1/2 Max cd



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 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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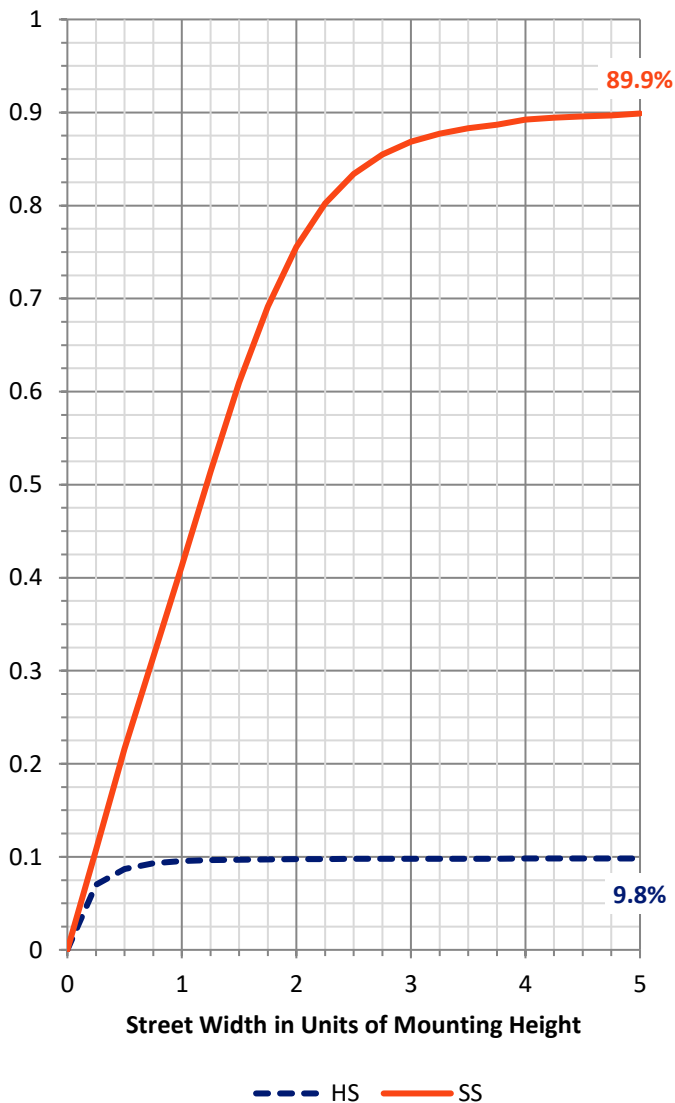
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	381.1	0.0	381.1
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	3464.9	0.0	3464.9
	% Fixture	90.1	0.0	90.1
Total	Lumens	3846.0	0.0	3846.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.5	0.9
10°-20°	110.4	2.9
20°-30°	176.5	4.6
30°-40°	254.1	6.6
40°-50°	445.7	11.6
50°-60°	939.2	24.4
60°-70°	1298.8	33.8
70°-80°	543.7	14.1
80°-90°	41.1	1.1
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°	3846.0	100.0
0°-180°	3846.0	100.0

Coefficient of Utilization

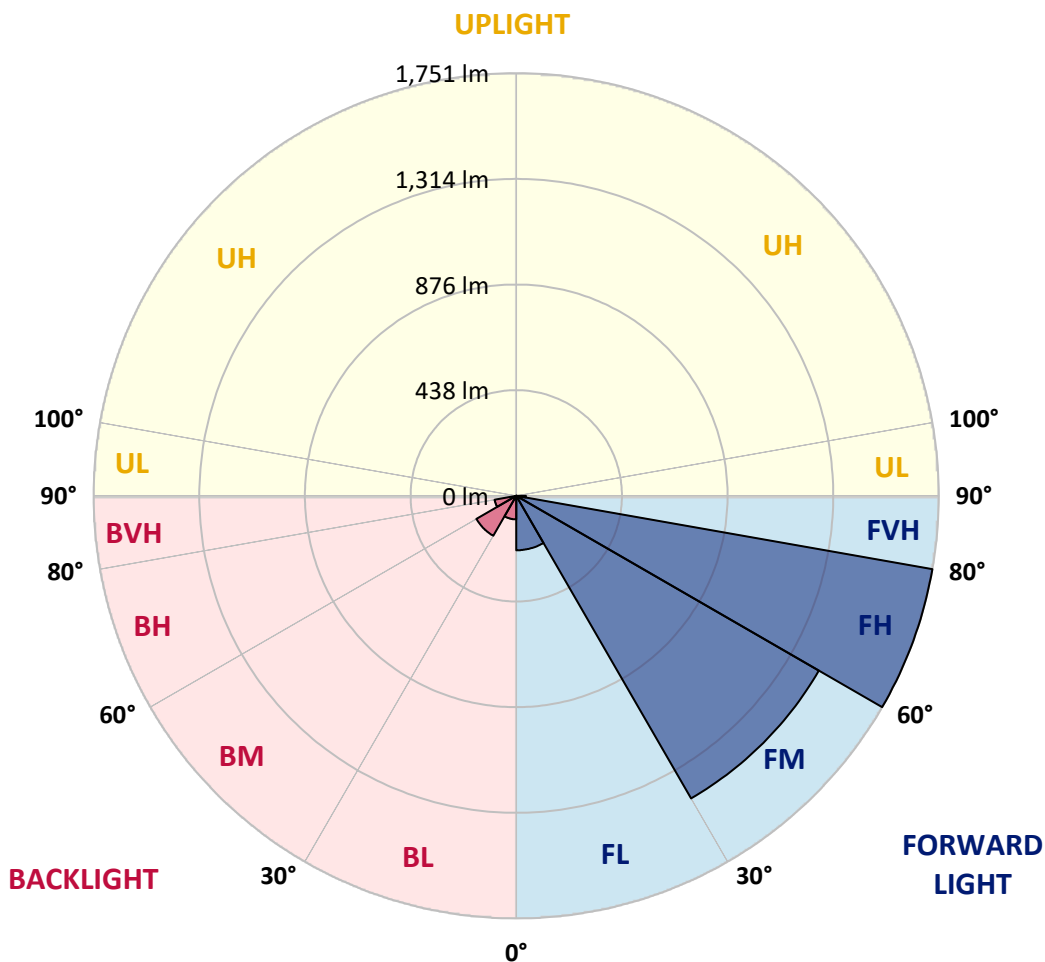


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	225.7	5.9			
FM (30°-60°)	1448.1	37.7			
FH (60°-80°)	1751.4	45.5			G1/1800
FVH (80°-90°)	39.7	1.0			G1/100
BL (0°-30°)	97.7	2.5	B0/110		
BM (30°-60°)	190.9	5.0	B0/220		
BH (60°-80°)	91.1	2.4	B0/110		G0/110
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	363.7	363.7	363.7	363.7	363.7	363.7	363.7	363.7	363.7	363.7	363.7
2.5°	404.9	397.8	396.4	395.0	390.7	385.0	386.5	382.2	375.1	370.8	366.6
5°	454.7	447.6	444.7	436.2	427.7	414.9	414.9	403.5	390.7	379.4	368.0
7.5°	505.8	500.1	494.4	481.7	468.9	451.8	450.4	433.3	413.5	396.4	377.9
10°	548.4	544.2	537.1	521.4	504.4	485.9	481.7	466.0	440.5	417.7	393.6
12.5°	582.5	578.3	568.3	552.7	531.4	512.9	511.5	491.6	466.0	441.9	412.0
15°	608.1	601.0	589.6	572.6	551.3	534.2	531.4	514.3	490.2	463.2	427.7
17.5°	612.4	608.1	598.2	579.7	561.2	547.0	545.6	532.8	511.5	483.1	446.1
20°	601.0	599.6	591.1	576.8	562.6	555.5	554.1	545.6	528.5	503.0	466.0
22.5°	584.0	582.5	576.8	569.7	564.1	562.6	562.6	559.8	549.9	525.7	491.6
25°	572.6	571.2	568.3	564.1	564.1	572.6	574.0	576.8	568.3	549.9	512.9
27.5°	574.0	571.2	568.3	564.1	569.7	585.4	586.8	593.9	586.8	569.7	537.1
30°	593.9	589.6	581.1	571.2	578.3	599.6	601.0	609.5	603.8	595.3	564.1
32.5°	625.2	622.3	605.3	588.2	592.5	613.8	616.6	632.3	639.4	626.6	588.2
35°	670.6	660.7	639.4	622.3	619.5	635.1	639.4	664.9	683.4	652.2	602.4
37.5°	707.6	699.0	664.9	637.9	653.6	689.1	690.5	721.8	706.1	655.0	625.2
40°	832.6	831.2	771.5	686.3	669.2	709.0	714.7	720.4	713.2	687.7	674.9
42.5°	1034.4	1017.3	950.5	819.8	703.3	707.6	710.4	740.2	777.2	765.8	770.1
45°	1253.2	1238.9	1163.6	998.8	819.8	784.3	787.1	835.4	906.5	920.7	943.4
47.5°	1454.9	1432.2	1389.6	1223.3	1018.7	915.0	920.7	978.9	1096.9	1128.1	1163.6
50°	1625.4	1609.8	1570.0	1460.6	1263.1	1121.0	1126.7	1175.0	1328.5	1378.2	1423.7
52.5°	1872.6	1851.3	1774.6	1723.4	1574.3	1389.6	1376.8	1427.9	1604.1	1636.8	1697.9
55°	2100.0	2055.9	2010.5	1989.1	1926.6	1710.7	1706.4	1716.3	1862.7	1879.7	1989.1
57.5°	2196.6	2188.1	2226.4	2297.5	2311.7	2088.6	2070.1	2031.8	2146.8	2145.4	2273.3
60°	2257.7	2257.7	2360.0	2536.2	2649.8	2492.1	2466.5	2347.2	2388.4	2389.8	2507.7
62.5°	2219.3	2229.3	2388.4	2654.1	2882.8	2834.5	2817.5	2617.1	2614.3	2581.6	2622.8
65°	1982.0	1999.1	2254.8	2588.7	2968.1	3081.7	3074.6	2847.3	2764.9	2645.6	2553.2
67°	1616.9	1648.1	1957.9	2352.9	2871.5	3167.0	3168.4	2946.8	2766.3	2539.0	2307.4
67.5°	1528.8	1551.5	1820.1	2267.6	2818.9	3168.4	3168.4	2959.6	2757.8	2506.3	2222.2
70°	974.7	980.4	1273.0	1754.7	2408.3	3015.0	3026.3	2862.9	2512.0	2028.9	1560.1
72.5°	481.7	468.9	672.0	1129.5	1807.3	2580.2	2610.0	2445.2	1987.7	1325.6	824.1
75°	189.0	201.8	292.7	601.0	1132.4	1945.1	1967.8	1778.9	1278.7	683.4	325.4
77.5°	83.8	83.8	125.0	270.0	595.3	1193.5	1204.8	1085.5	674.9	281.3	99.5
80°	45.5	48.3	65.4	117.9	299.8	548.4	598.2	538.5	305.5	123.6	34.1
82.5°	22.7	24.2	39.8	66.8	150.6	207.4	218.8	228.8	140.7	76.7	14.2
85°	8.5	9.9	21.3	38.4	68.2	69.6	69.6	89.5	76.7	58.3	7.1
87.5°	1.4	2.8	9.9	15.6	27.0	24.2	21.3	28.4	42.6	36.9	4.3
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°	363.7	363.7	363.7	363.7	363.7	363.7	363.7	363.7	363.7	363.7	363.7
2.5°	363.7	360.9	355.2	350.9	348.1	345.3	342.4	342.4	341.0	341.0	342.4
5°	363.7	358.0	346.7	339.6	333.9	329.6	326.8	326.8	325.4	326.8	328.2
7.5°	370.8	362.3	346.7	333.9	326.8	319.7	316.8	315.4	315.4	316.8	315.4
10°	382.2	370.8	350.9	333.9	323.9	314.0	298.4	284.2	271.4	265.7	264.3
12.5°	396.4	382.2	358.0	338.2	322.5	288.4	245.8	218.8	201.8	193.2	190.4
15°	412.0	395.0	366.6	343.8	301.2	237.3	181.9	152.0	142.1	143.5	144.9
17.5°	429.1	410.6	379.4	341.0	258.6	176.2	133.6	126.5	130.7	135.0	135.0
20°	446.1	426.2	392.1	319.7	203.2	130.7	119.3	120.8	125.0	129.3	129.3
22.5°	468.9	447.6	404.9	282.7	150.6	113.7	113.7	116.5	119.3	123.6	123.6
25°	493.0	471.7	413.5	237.3	112.2	106.6	108.0	110.8	113.7	117.9	117.9
27.5°	518.6	497.3	412.0	183.3	98.0	98.0	99.5	103.7	106.6	110.8	110.8
30°	547.0	528.5	396.4	133.6	90.9	89.5	89.5	93.8	98.0	100.9	102.3
32.5°	571.2	555.5	369.4	100.9	85.2	82.4	81.0	82.4	86.7	89.5	90.9
35°	591.1	585.4	329.6	86.7	79.6	75.3	72.5	71.0	72.5	72.5	73.9
37.5°	628.0	629.4	282.7	81.0	75.3	69.6	63.9	59.7	56.8	55.4	54.0
40°	697.6	696.2	233.0	76.7	71.0	63.9	55.4	49.7	42.6	39.8	39.8
42.5°	795.7	774.3	177.6	72.5	66.8	58.3	46.9	38.4	31.3	29.8	29.8
45°	971.8	883.7	133.6	69.6	62.5	51.1	38.4	28.4	24.2	22.7	22.7
47.5°	1166.5	1010.2	106.6	65.4	58.3	45.5	29.8	22.7	18.5	18.5	18.5
50°	1381.0	1131.0	89.5	61.1	51.1	38.4	24.2	18.5	17.0	15.6	17.0
52.5°	1615.5	1226.2	78.1	55.4	44.0	31.3	19.9	17.0	14.2	14.2	14.2
55°	1825.7	1290.1	65.4	48.3	36.9	25.6	18.5	14.2	12.8	11.4	9.9
57.5°	2016.1	1324.2	52.6	41.2	28.4	21.3	15.6	11.4	9.9	7.1	7.1
60°	2114.2	1292.9	41.2	32.7	22.7	17.0	12.8	9.9	7.1	4.3	4.3
62.5°	2129.8	1212.0	32.7	25.6	19.9	14.2	9.9	7.1	4.3	2.8	2.8
65°	1993.4	1069.9	27.0	21.3	15.6	11.4	8.5	5.7	2.8	1.4	1.4
67°	1749.0	920.7	24.2	18.5	14.2	9.9	7.1	4.3	2.8	1.4	0.0
67.5°	1700.7	893.7	22.7	18.5	14.2	9.9	7.1	4.3	2.8	1.4	0.0
70°	1116.8	618.1	21.3	17.0	12.8	8.5	5.7	4.3	1.4	0.0	0.0
72.5°	609.5	311.2	19.9	15.6	11.4	8.5	5.7	2.8	1.4	0.0	0.0
75°	223.1	117.9	17.0	14.2	9.9	8.5	5.7	2.8	1.4	0.0	0.0
77.5°	75.3	41.2	15.6	14.2	11.4	8.5	5.7	2.8	1.4	0.0	0.0
80°	25.6	18.5	12.8	11.4	8.5	7.1	5.7	2.8	1.4	0.0	0.0
82.5°	9.9	5.7	4.3	4.3	4.3	5.7	5.7	4.3	1.4	0.0	0.0
85°	4.3	2.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0
87.5°	4.3	2.8	1.4	1.4	1.4	0.0	0.0	0.0	0.0	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)