

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: P573361

Luminaire Tested: **ARCH-S-PA2-60-830-U-T4W-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573361
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-PA2-60-830-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 625mA 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: 5511 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

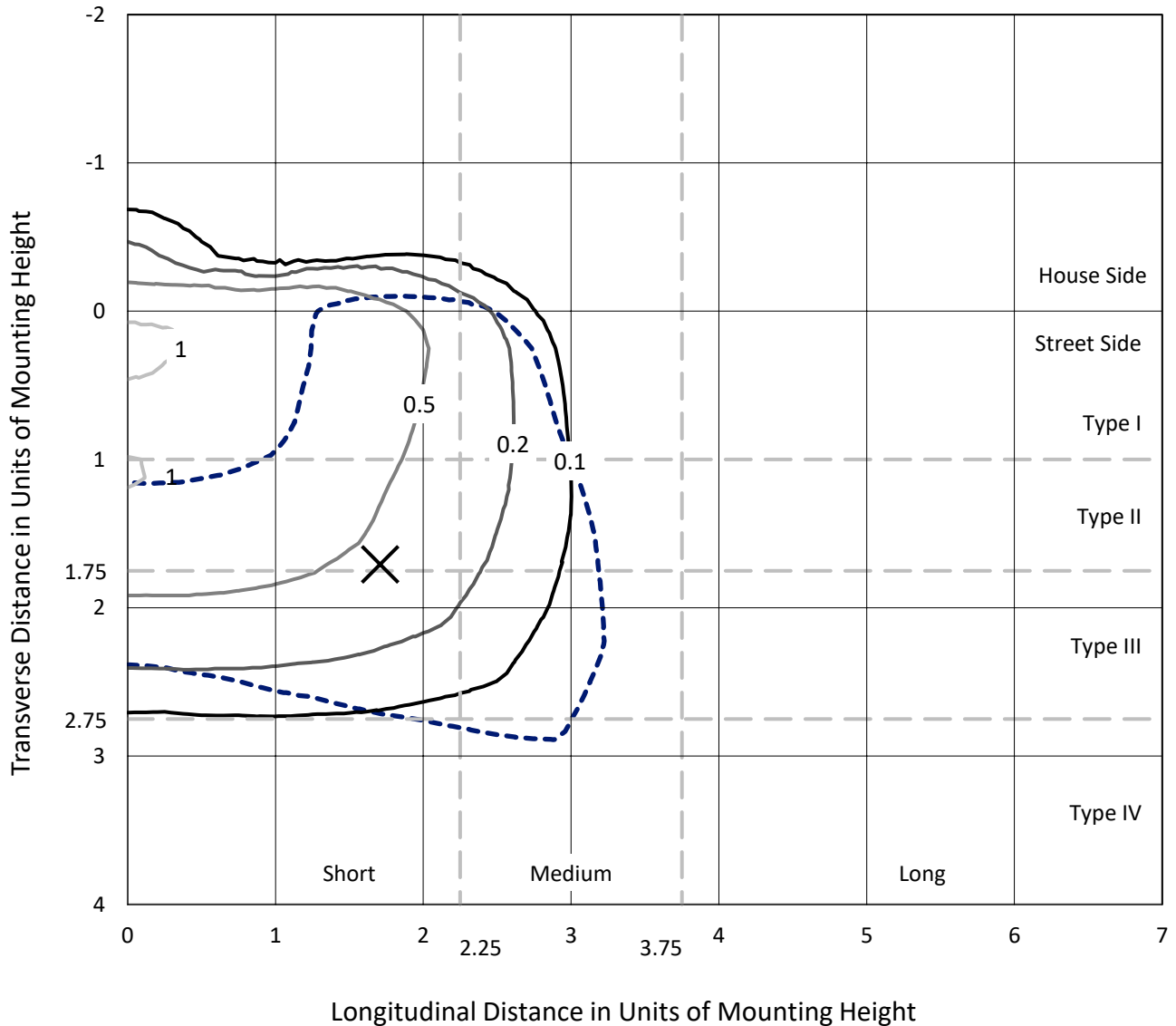
Input Watts (W): 63.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

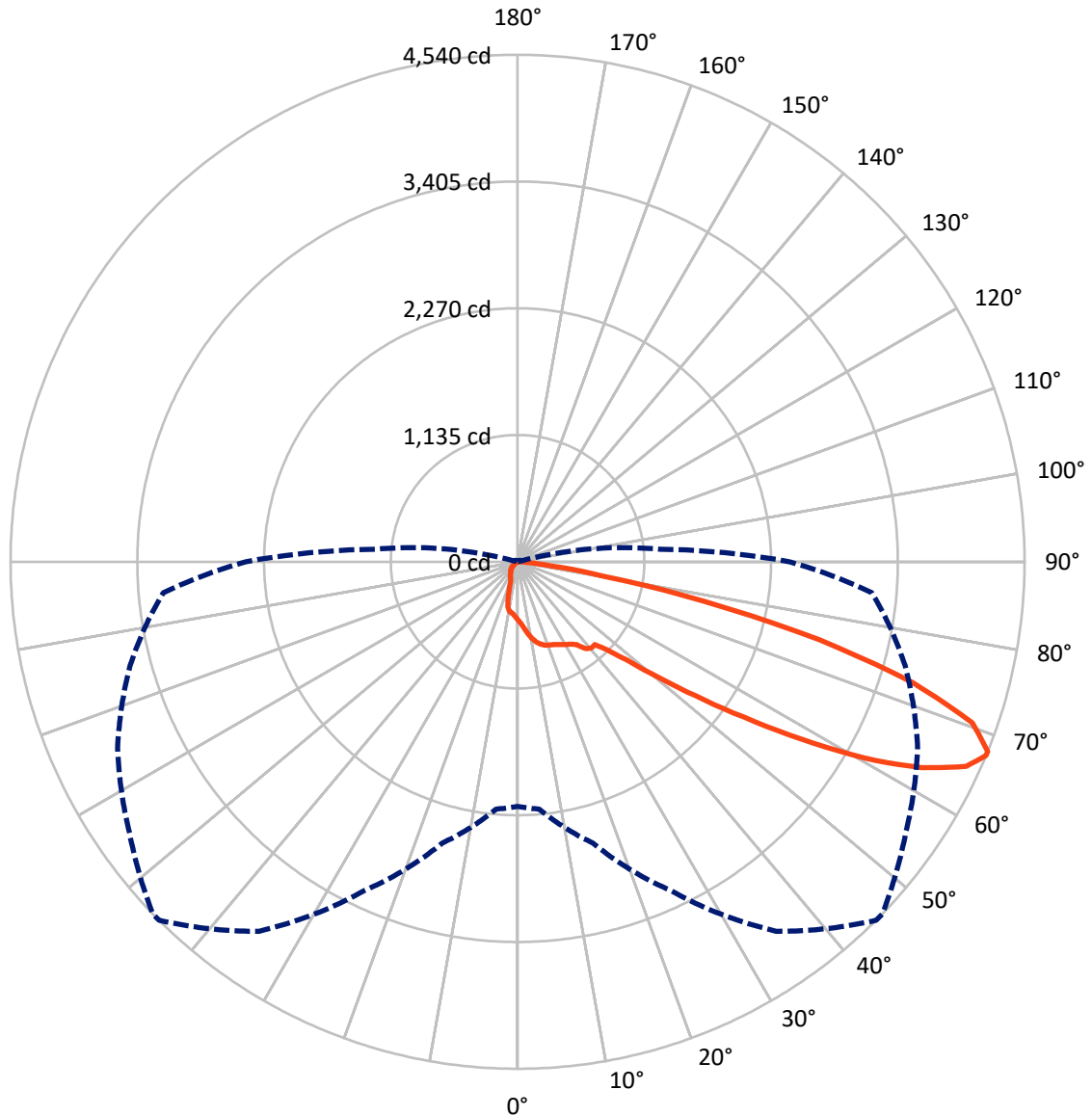
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type 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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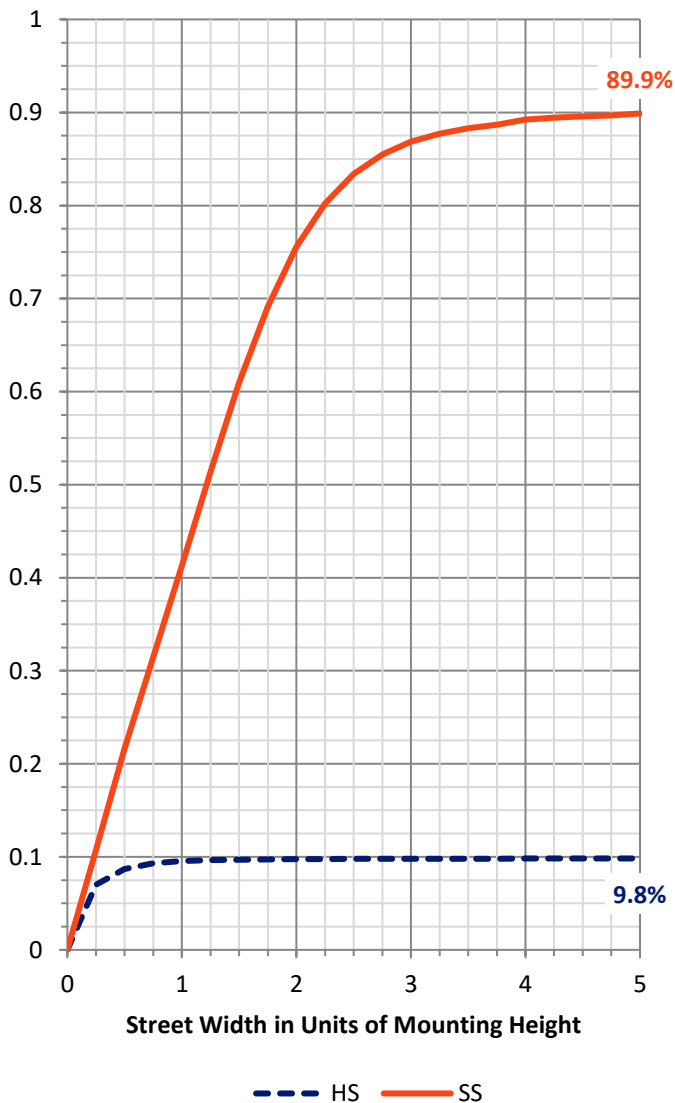
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	546.1	0.0	546.1
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	4965.0	0.0	4965.0
	% Fixture	90.1	0.0	90.1
Total	Lumens	5511.0	0.0	5511.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.3	0.9
10°-20°	158.1	2.9
20°-30°	253.0	4.6
30°-40°	364.1	6.6
40°-50°	638.7	11.6
50°-60°	1345.8	24.4
60°-70°	1861.0	33.8
70°-80°	779.1	14.1
80°-90°	58.9	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°	5511.0	100.0
0°-180°	5511.0	100.0

Coefficient of Utilization



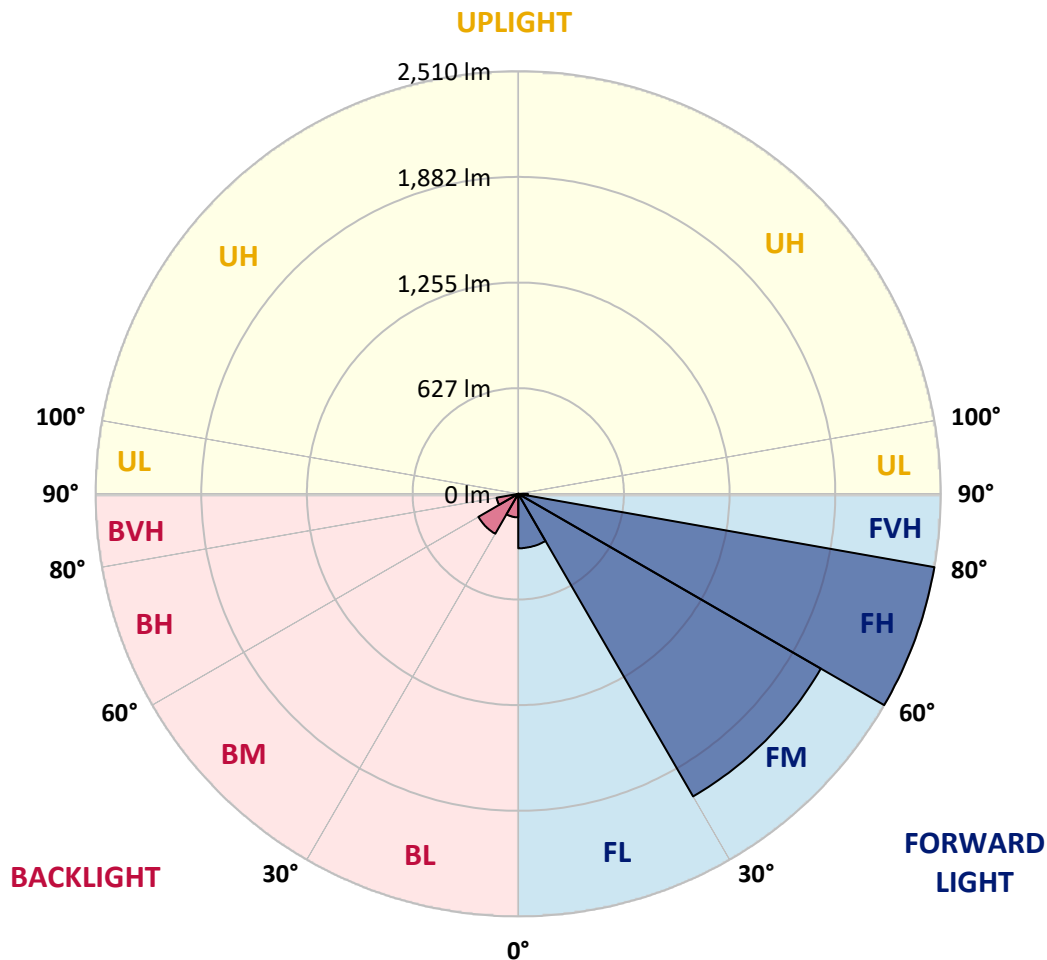
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	323.5	5.9			
FM (30°-60°)	2075.0	37.7			
FH (60°-80°)	2509.6	45.5			G2/5000
FVH (80°-90°)	56.9	1.0			G1/100
BL (0°-30°)	139.9	2.5	B1/500		
BM (30°-60°)	273.6	5.0	B1/1000		
BH (60°-80°)	130.5	2.4	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	521.2	521.2	521.2	521.2	521.2	521.2	521.2	521.2	521.2	521.2	521.2
2.5°	580.2	570.1	568.0	566.0	559.9	551.7	553.8	547.7	537.5	531.4	525.3
5°	651.5	641.3	637.2	625.0	612.8	594.5	594.5	578.2	559.9	543.6	527.3
7.5°	724.8	716.6	708.5	690.2	671.8	647.4	645.4	621.0	592.4	568.0	541.6
10°	785.9	779.8	769.6	747.2	722.7	696.3	690.2	667.8	631.1	598.6	563.9
12.5°	834.7	828.6	814.4	792.0	761.4	735.0	732.9	704.4	667.8	633.2	590.4
15°	871.4	861.2	844.9	820.5	789.9	765.5	761.4	737.0	702.4	663.7	612.8
17.5°	877.5	871.4	857.1	830.7	804.2	783.8	781.8	763.5	732.9	692.2	639.3
20°	861.2	859.2	846.9	826.6	806.2	796.0	794.0	781.8	757.4	720.7	667.8
22.5°	836.8	834.7	826.6	816.4	808.3	806.2	806.2	802.1	787.9	753.3	704.4
25°	820.5	818.4	814.4	808.3	808.3	820.5	822.5	826.6	814.4	787.9	735.0
27.5°	822.5	818.4	814.4	808.3	816.4	838.8	840.8	851.0	840.8	816.4	769.6
30°	851.0	844.9	832.7	818.4	828.6	859.2	861.2	873.4	865.3	853.0	808.3
32.5°	895.8	891.7	867.3	842.9	849.0	879.5	883.6	906.0	916.2	897.8	842.9
35°	960.9	946.7	916.2	891.7	887.7	910.1	916.2	952.8	979.3	934.5	863.2
37.5°	1013.9	1001.7	952.8	914.1	936.5	987.4	989.5	1034.2	1011.8	938.6	895.8
40°	1193.0	1191.0	1105.5	983.3	958.9	1015.9	1024.1	1032.2	1022.0	985.4	967.1
42.5°	1482.1	1457.7	1362.0	1174.7	1007.8	1013.9	1018.0	1060.7	1113.6	1097.4	1103.5
45°	1795.7	1775.3	1667.4	1431.2	1174.7	1123.8	1127.9	1197.1	1298.9	1319.3	1351.8
47.5°	2084.8	2052.2	1991.1	1752.9	1459.7	1311.1	1319.3	1402.7	1571.7	1616.5	1667.4
50°	2329.1	2306.7	2249.7	2092.9	1809.9	1606.3	1614.5	1683.7	1903.6	1974.8	2040.0
52.5°	2683.3	2652.8	2542.8	2469.6	2255.8	1991.1	1972.8	2046.1	2298.5	2345.4	2432.9
55°	3009.1	2946.0	2880.8	2850.3	2760.7	2451.2	2445.1	2459.4	2669.1	2693.5	2850.3
57.5°	3147.5	3135.3	3190.3	3292.1	3312.4	2992.8	2966.3	2911.3	3076.3	3074.2	3257.5
60°	3235.1	3235.1	3381.6	3634.1	3797.0	3571.0	3534.3	3363.3	3422.4	3424.4	3593.4
62.5°	3180.1	3194.3	3422.4	3803.1	4130.9	4061.6	4037.2	3750.1	3746.1	3699.2	3758.3
65°	2840.1	2864.5	3231.0	3709.4	4253.0	4415.9	4405.7	4080.0	3961.9	3790.9	3658.5
67°	2316.9	2361.7	2805.5	3371.5	4114.6	4538.0	4540.1	4222.5	3963.9	3638.2	3306.3
67.5°	2190.6	2223.2	2608.0	3249.3	4039.2	4540.1	4540.1	4240.8	3951.7	3591.3	3184.2
70°	1396.6	1404.8	1824.2	2514.3	3450.9	4320.2	4336.5	4102.4	3599.5	2907.3	2235.4
72.5°	690.2	671.8	963.0	1618.5	2589.7	3697.2	3740.0	3503.8	2848.2	1899.5	1180.8
75°	270.8	289.1	419.4	861.2	1622.6	2787.2	2819.7	2549.0	1832.3	979.3	466.2
77.5°	120.1	120.1	179.2	386.8	853.0	1710.2	1726.4	1555.4	967.1	403.1	142.5
80°	65.1	69.2	93.7	169.0	429.6	785.9	857.1	771.6	437.7	177.1	48.9
82.5°	32.6	34.6	57.0	95.7	215.8	297.2	313.5	327.8	201.6	109.9	20.4
85°	12.2	14.3	30.5	55.0	97.7	99.8	99.8	128.3	109.9	83.5	10.2
87.5°	2.0	4.1	14.3	22.4	38.7	34.6	30.5	40.7	61.1	52.9	6.1
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°	521.2	521.2	521.2	521.2	521.2	521.2	521.2	521.2	521.2	521.2	521.2
2.5°	521.2	517.1	509.0	502.9	498.8	494.7	490.7	490.7	488.6	488.6	490.7
5°	521.2	513.0	496.8	486.6	478.4	472.3	468.3	468.3	466.2	468.3	470.3
7.5°	531.4	519.2	496.8	478.4	468.3	458.1	454.0	452.0	452.0	454.0	452.0
10°	547.7	531.4	502.9	478.4	464.2	449.9	427.5	407.2	388.9	380.7	378.7
12.5°	568.0	547.7	513.0	484.5	462.2	413.3	352.2	313.5	289.1	276.9	272.8
15°	590.4	566.0	525.3	492.7	431.6	340.0	260.6	217.8	203.6	205.6	207.7
17.5°	614.8	588.4	543.6	488.6	370.5	252.5	191.4	181.2	187.3	193.4	193.4
20°	639.3	610.8	561.9	458.1	291.1	187.3	171.0	173.1	179.2	185.3	185.3
22.5°	671.8	641.3	580.2	405.1	215.8	162.9	162.9	166.9	171.0	177.1	177.1
25°	706.5	675.9	592.4	340.0	160.8	152.7	154.7	158.8	162.9	169.0	169.0
27.5°	743.1	712.6	590.4	262.6	140.5	140.5	142.5	148.6	152.7	158.8	158.8
30°	783.8	757.4	568.0	191.4	130.3	128.3	128.3	134.4	140.5	144.5	146.6
32.5°	818.4	796.0	529.3	144.5	122.2	118.1	116.0	118.1	124.2	128.3	130.3
35°	846.9	838.8	472.3	124.2	114.0	107.9	103.8	101.8	103.8	103.8	105.9
37.5°	899.9	901.9	405.1	116.0	107.9	99.8	91.6	85.5	81.4	79.4	77.4
40°	999.6	997.6	333.9	109.9	101.8	91.6	79.4	71.3	61.1	57.0	57.0
42.5°	1140.1	1109.6	254.5	103.8	95.7	83.5	67.2	55.0	44.8	42.8	42.8
45°	1392.6	1266.3	191.4	99.8	89.6	73.3	55.0	40.7	34.6	32.6	32.6
47.5°	1671.5	1447.5	152.7	93.7	83.5	65.1	42.8	32.6	26.5	26.5	26.5
50°	1978.9	1620.6	128.3	87.5	73.3	55.0	34.6	26.5	24.4	22.4	24.4
52.5°	2314.8	1757.0	112.0	79.4	63.1	44.8	28.5	24.4	20.4	20.4	20.4
55°	2616.1	1848.6	93.7	69.2	52.9	36.6	26.5	20.4	18.3	16.3	14.3
57.5°	2889.0	1897.5	75.3	59.0	40.7	30.5	22.4	16.3	14.3	10.2	10.2
60°	3029.4	1852.7	59.0	46.8	32.6	24.4	18.3	14.3	10.2	6.1	6.1
62.5°	3051.8	1736.6	46.8	36.6	28.5	20.4	14.3	10.2	6.1	4.1	4.1
65°	2856.4	1533.0	38.7	30.5	22.4	16.3	12.2	8.1	4.1	2.0	2.0
67°	2506.2	1319.3	34.6	26.5	20.4	14.3	10.2	6.1	4.1	2.0	0.0
67.5°	2437.0	1280.6	32.6	26.5	20.4	14.3	10.2	6.1	4.1	2.0	0.0
70°	1600.2	885.6	30.5	24.4	18.3	12.2	8.1	6.1	2.0	0.0	0.0
72.5°	873.4	445.9	28.5	22.4	16.3	12.2	8.1	4.1	2.0	0.0	0.0
75°	319.6	169.0	24.4	20.4	14.3	12.2	8.1	4.1	2.0	0.0	0.0
77.5°	107.9	59.0	22.4	20.4	16.3	12.2	8.1	4.1	2.0	0.0	0.0
80°	36.6	26.5	18.3	16.3	12.2	10.2	8.1	4.1	2.0	0.0	0.0
82.5°	14.3	8.1	6.1	6.1	6.1	8.1	8.1	6.1	2.0	0.0	0.0
85°	6.1	4.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0
87.5°	6.1	4.1	2.0	2.0	2.0	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)