

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: P573305

Luminaire Tested: **ARCH-S-PA2-60-730-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573305
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-18)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-60-730-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6412 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

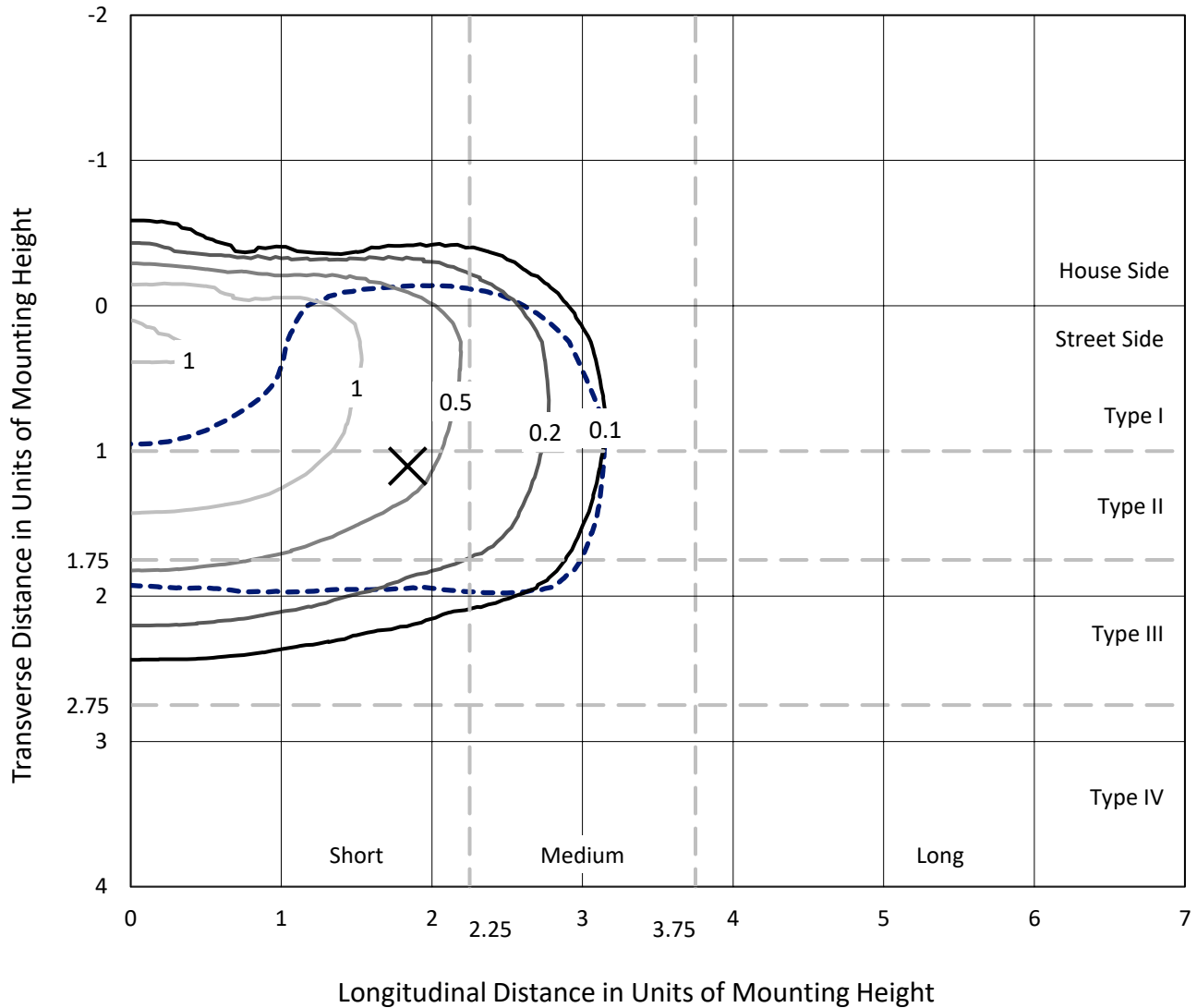
Input Watts (W): 63.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

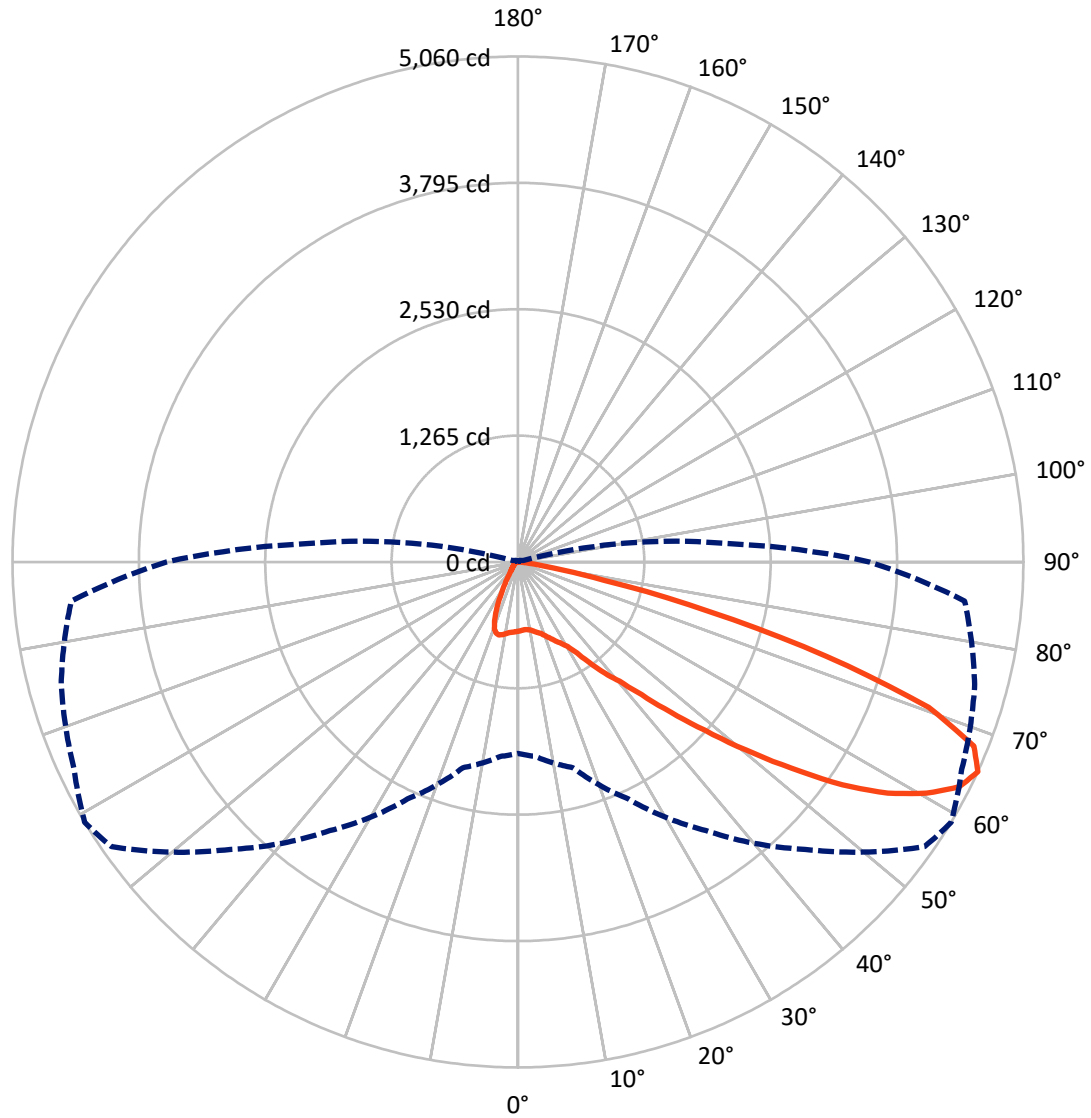
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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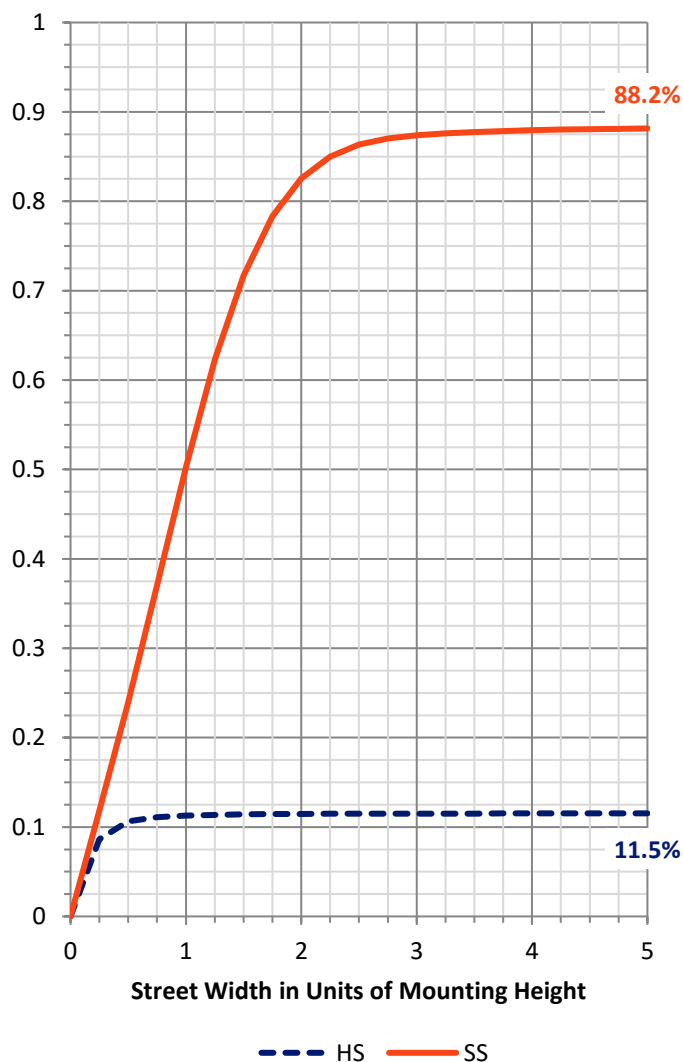
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	748.0	0.0	748.0
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	5664.0	0.0	5664.0
	% Fixture	88.3	0.0	88.3
Total	Lumens	6412.0	0.0	6412.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.5	1.0
10°-20°	186.0	2.9
20°-30°	315.9	4.9
30°-40°	559.6	8.7
40°-50°	1055.7	16.5
50°-60°	1786.2	27.9
60°-70°	1857.0	29.0
70°-80°	556.9	8.7
80°-90°	29.2	0.5
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°	6412.0	100.0
0°-180°	6412.0	100.0

Coefficient of Utilization



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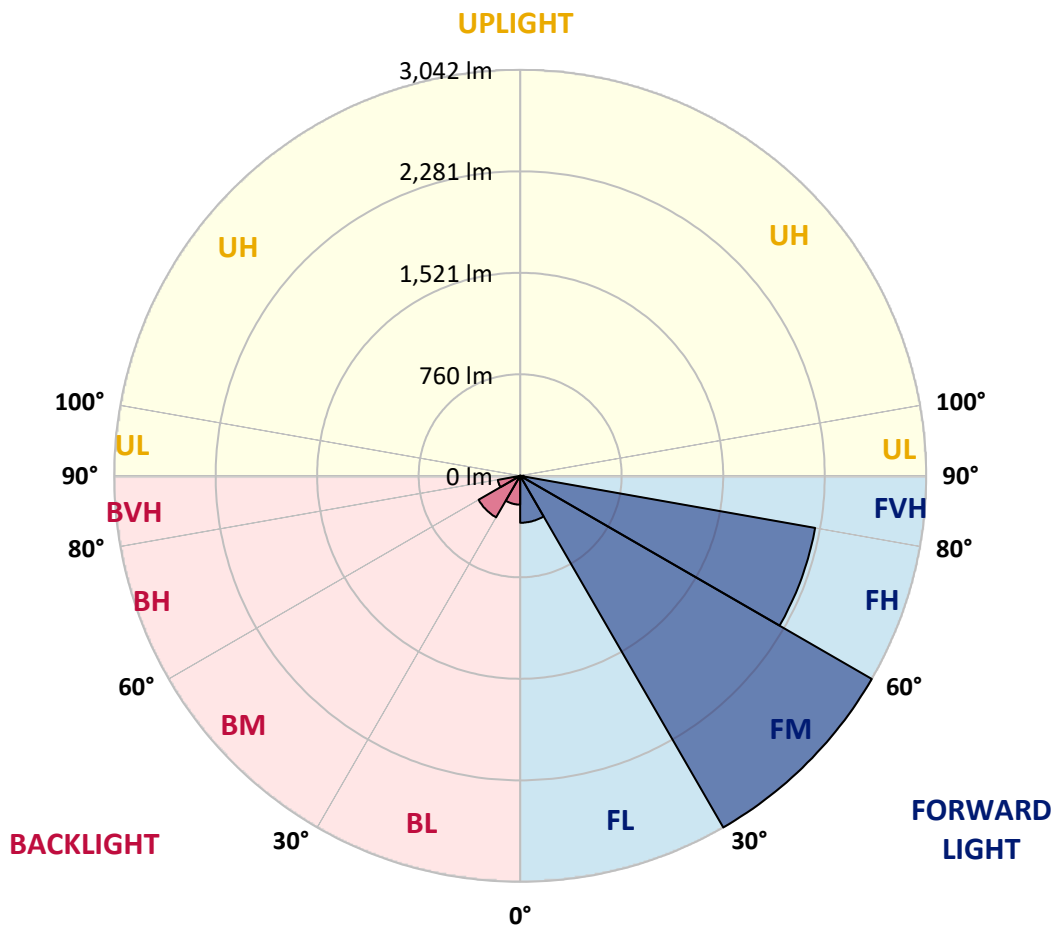
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	351.6	5.5			
FM (30°-60°)	3041.9	47.4			
FH (60°-80°)	2243.7	35.0			G2/5000
FVH (80°-90°)	26.7	0.4			G1/100
BL (0°-30°)	215.8	3.4	B1/500		
BM (30°-60°)	359.6	5.6	B1/1000		
BH (60°-80°)	170.2	2.7	B1/500		G1/500
BVH (80°-90°)	2.5	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°	55°	59°	65°	75°	85°
0°	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9
2.5°	674.2	671.9	671.9	676.5	678.9	681.2	685.9	685.9	685.9	690.5	692.9
5°	641.6	641.6	643.9	648.6	657.9	664.9	678.9	681.2	683.5	695.2	699.9
7.5°	620.6	620.6	622.9	632.2	643.9	660.2	678.9	683.5	690.5	706.9	718.5
10°	618.2	615.9	620.6	629.9	643.9	664.9	685.9	692.9	706.9	727.9	744.2
12.5°	625.2	622.9	627.6	636.9	650.9	671.9	699.9	711.5	727.9	755.9	779.2
15°	629.9	627.6	632.2	643.9	660.2	685.9	718.5	732.5	753.5	793.2	816.5
17.5°	643.9	641.6	643.9	653.2	669.6	697.5	739.5	753.5	788.5	832.9	858.5
20°	706.9	704.5	690.5	685.9	688.2	713.9	767.5	790.9	832.9	888.8	907.5
22.5°	837.5	828.2	802.5	760.5	732.5	741.9	802.5	828.2	884.2	947.2	961.2
25°	1012.5	1005.5	968.2	895.8	816.5	793.2	842.2	877.2	944.8	1014.8	1010.2
27.5°	1210.8	1196.8	1161.8	1061.5	954.2	877.2	891.2	921.5	996.2	1070.8	1047.5
30°	1383.4	1378.8	1339.1	1255.1	1129.1	1014.8	965.8	982.2	1049.8	1129.1	1101.1
32.5°	1542.1	1528.1	1495.4	1416.1	1299.4	1182.8	1084.8	1084.8	1140.8	1234.1	1192.1
35°	1717.0	1707.7	1668.0	1588.7	1476.7	1339.1	1250.5	1241.1	1287.8	1392.8	1301.8
37.5°	1896.7	1873.3	1854.7	1773.0	1661.0	1542.1	1434.8	1413.8	1437.1	1514.1	1402.1
40°	2120.6	2120.6	2078.6	2004.0	1899.0	1773.0	1623.7	1570.1	1563.1	1663.4	1577.1
42.5°	2381.9	2374.9	2339.9	2269.9	2169.6	2053.0	1864.0	1815.0	1810.4	1931.7	1829.0
45°	2682.9	2678.2	2636.2	2577.9	2507.9	2379.6	2193.0	2144.0	2116.0	2255.9	2134.6
47.5°	2958.2	2941.8	2927.8	2934.8	2895.2	2750.5	2575.6	2517.2	2514.9	2624.5	2468.2
50°	3147.1	3137.8	3186.8	3233.4	3308.1	3217.1	3009.5	2958.2	2918.5	3063.1	2815.8
52.5°	3270.8	3266.1	3364.1	3497.1	3651.0	3644.0	3459.7	3429.4	3396.7	3436.4	3126.1
55°	3319.8	3319.8	3436.4	3681.4	3952.0	4068.6	3982.3	3940.3	3826.0	3744.4	3466.7
57.5°	3261.4	3254.4	3406.1	3725.7	4138.6	4378.9	4416.2	4367.2	4187.6	4096.6	3844.7
60°	3014.1	3018.8	3198.4	3602.0	4124.6	4504.9	4745.2	4700.9	4521.2	4385.9	4161.9
62.5°	2552.2	2591.9	2780.9	3219.4	3826.0	4404.6	4934.1	4957.5	4763.8	4595.9	4444.2
65°	1917.7	1952.7	2132.3	2617.5	3282.4	4068.6	4969.1	5060.1	4903.8	4733.5	4488.6
67.5°	1166.5	1178.1	1397.4	1763.7	2416.9	3389.7	4724.2	4922.5	4810.5	4530.6	4050.0
70°	543.6	573.9	681.2	963.5	1530.4	2496.2	4082.6	4362.6	4236.6	3889.0	3079.5
72.5°	212.3	221.6	289.3	445.6	811.9	1570.1	3046.8	3233.4	3147.1	2762.2	1836.0
75°	105.0	112.0	140.0	212.3	370.9	648.6	1861.7	1983.0	1840.7	1388.1	776.9
77.5°	77.0	77.0	93.3	130.6	203.0	240.3	783.9	879.5	830.5	536.6	212.3
80°	51.3	56.0	65.3	88.7	128.3	116.6	296.3	352.3	293.9	165.6	74.7
82.5°	30.3	32.7	49.0	63.0	86.3	67.7	100.3	112.0	121.3	81.7	35.0
85°	16.3	16.3	32.7	46.7	46.7	30.3	35.0	39.7	46.7	49.0	18.7
87.5°	4.7	4.7	21.0	28.0	18.7	16.3	18.7	18.7	21.0	25.7	9.3
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°	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9	692.9
2.5°	695.2	695.2	697.5	697.5	699.9	699.9	699.9	699.9	702.2	704.5	704.5
5°	702.2	704.5	704.5	704.5	704.5	699.9	697.5	695.2	695.2	697.5	697.5
7.5°	720.9	723.2	720.9	716.2	709.2	699.9	690.5	690.5	688.2	690.5	688.2
10°	748.9	748.9	746.5	734.9	723.2	704.5	685.9	671.9	662.6	660.2	655.6
12.5°	783.9	783.9	776.9	755.9	734.9	699.9	650.9	604.2	566.9	550.6	545.9
15°	818.9	818.9	809.5	779.2	737.2	653.2	550.6	452.6	396.6	373.3	359.3
17.5°	860.9	856.2	839.9	797.9	711.5	559.9	394.3	293.9	249.6	228.6	228.6
20°	905.2	900.5	870.2	800.2	646.2	401.3	256.6	203.0	191.3	186.6	186.6
22.5°	954.2	942.5	895.8	781.5	508.6	273.0	193.6	179.6	175.0	172.6	172.6
25°	993.8	975.2	914.5	730.2	363.9	191.3	170.3	165.6	156.3	154.0	149.3
27.5°	1024.2	996.2	921.5	620.6	240.3	158.6	151.6	142.3	133.0	123.6	123.6
30°	1063.8	1028.8	926.2	482.9	163.3	137.6	130.6	119.0	107.3	98.0	98.0
32.5°	1143.1	1091.8	928.5	338.3	135.3	121.3	107.3	93.3	81.7	77.0	74.7
35°	1229.5	1159.5	902.8	219.3	119.0	102.6	86.3	74.7	63.0	60.7	60.7
37.5°	1325.1	1259.8	846.9	149.3	105.0	86.3	70.0	58.3	51.3	49.0	49.0
40°	1486.1	1409.1	753.5	119.0	91.0	72.3	58.3	49.0	44.3	42.0	42.0
42.5°	1717.0	1584.1	636.9	102.6	79.3	60.7	46.7	39.7	37.3	35.0	35.0
45°	1983.0	1780.0	501.6	93.3	70.0	51.3	39.7	35.0	32.7	30.3	30.3
47.5°	2288.6	1983.0	396.6	81.7	60.7	44.3	35.0	30.3	28.0	25.7	25.7
50°	2577.9	2141.6	298.6	72.3	53.7	37.3	30.3	28.0	25.7	23.3	23.3
52.5°	2815.8	2248.9	226.3	63.0	46.7	32.7	28.0	25.7	21.0	21.0	21.0
55°	3102.8	2332.9	172.6	56.0	42.0	30.3	25.7	21.0	18.7	16.3	16.3
57.5°	3352.4	2363.3	126.0	49.0	37.3	28.0	23.3	18.7	14.0	11.7	11.7
60°	3520.4	2337.6	91.0	42.0	32.7	23.3	18.7	14.0	9.3	7.0	7.0
62.5°	3639.4	2281.6	70.0	37.3	28.0	21.0	16.3	11.7	7.0	4.7	4.7
65°	3520.4	2109.0	56.0	32.7	23.3	18.7	11.7	9.3	4.7	2.3	2.3
67.5°	3044.5	1768.4	44.3	28.0	21.0	16.3	11.7	7.0	2.3	0.0	0.0
70°	2188.3	1262.1	37.3	25.7	18.7	14.0	9.3	4.7	2.3	0.0	0.0
72.5°	1220.1	650.9	35.0	23.3	18.7	14.0	9.3	4.7	2.3	0.0	0.0
75°	494.6	224.0	32.7	23.3	18.7	11.7	9.3	4.7	2.3	0.0	0.0
77.5°	144.6	77.0	28.0	21.0	18.7	14.0	9.3	4.7	2.3	0.0	0.0
80°	51.3	35.0	21.0	18.7	14.0	11.7	9.3	7.0	2.3	0.0	0.0
82.5°	23.3	14.0	9.3	7.0	7.0	7.0	7.0	4.7	2.3	0.0	0.0
85°	9.3	7.0	4.7	2.3	2.3	2.3	2.3	2.3	2.3	0.0	0.0
87.5°	7.0	4.7	2.3	2.3	2.3	2.3	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)