

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: P573217

Luminaire Tested: **ARCH-S-PA2-50-727-U-T4W-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573217
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-PA2-50-727-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 520mA 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: 4913 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

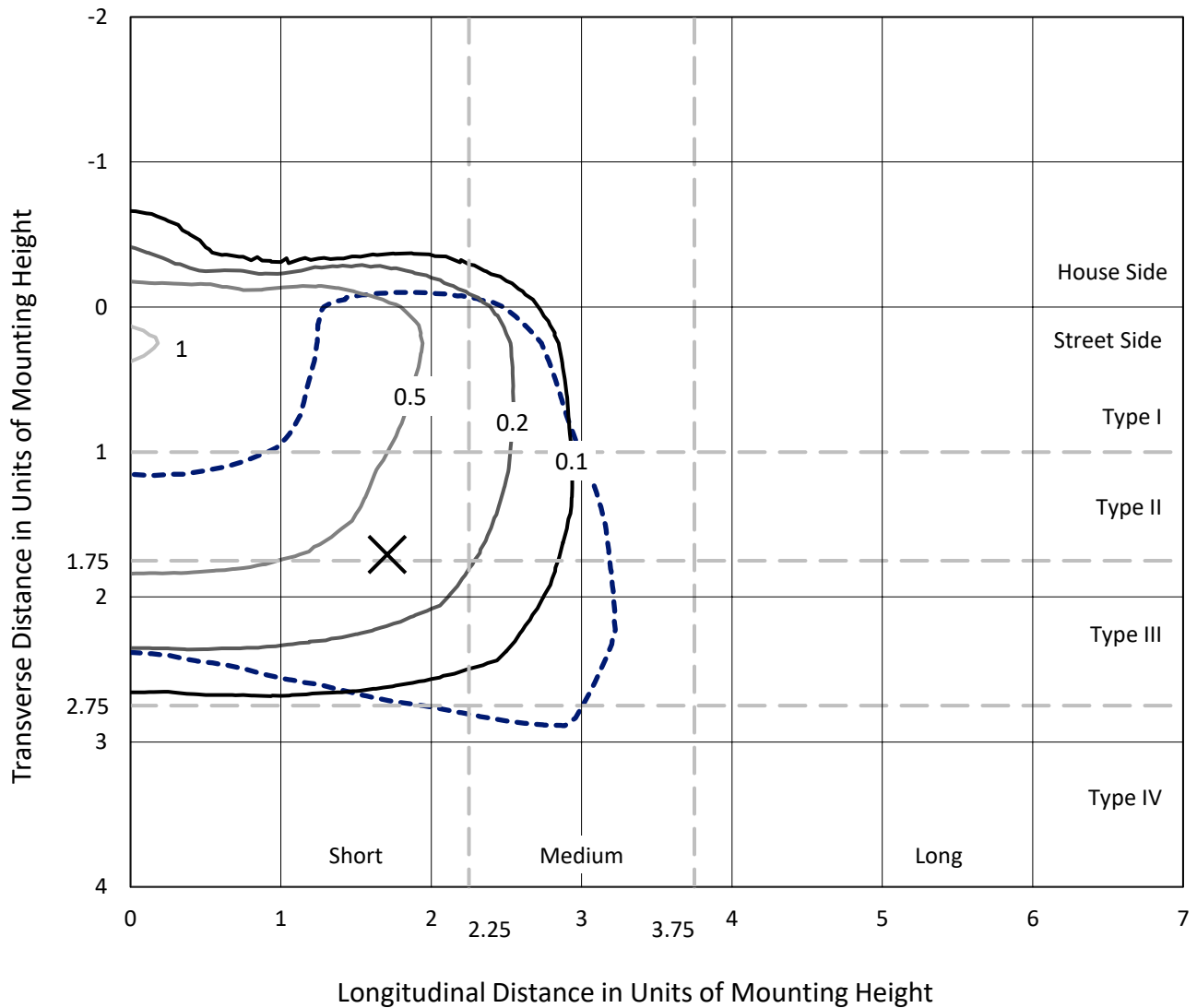
Input Watts (W): 53.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

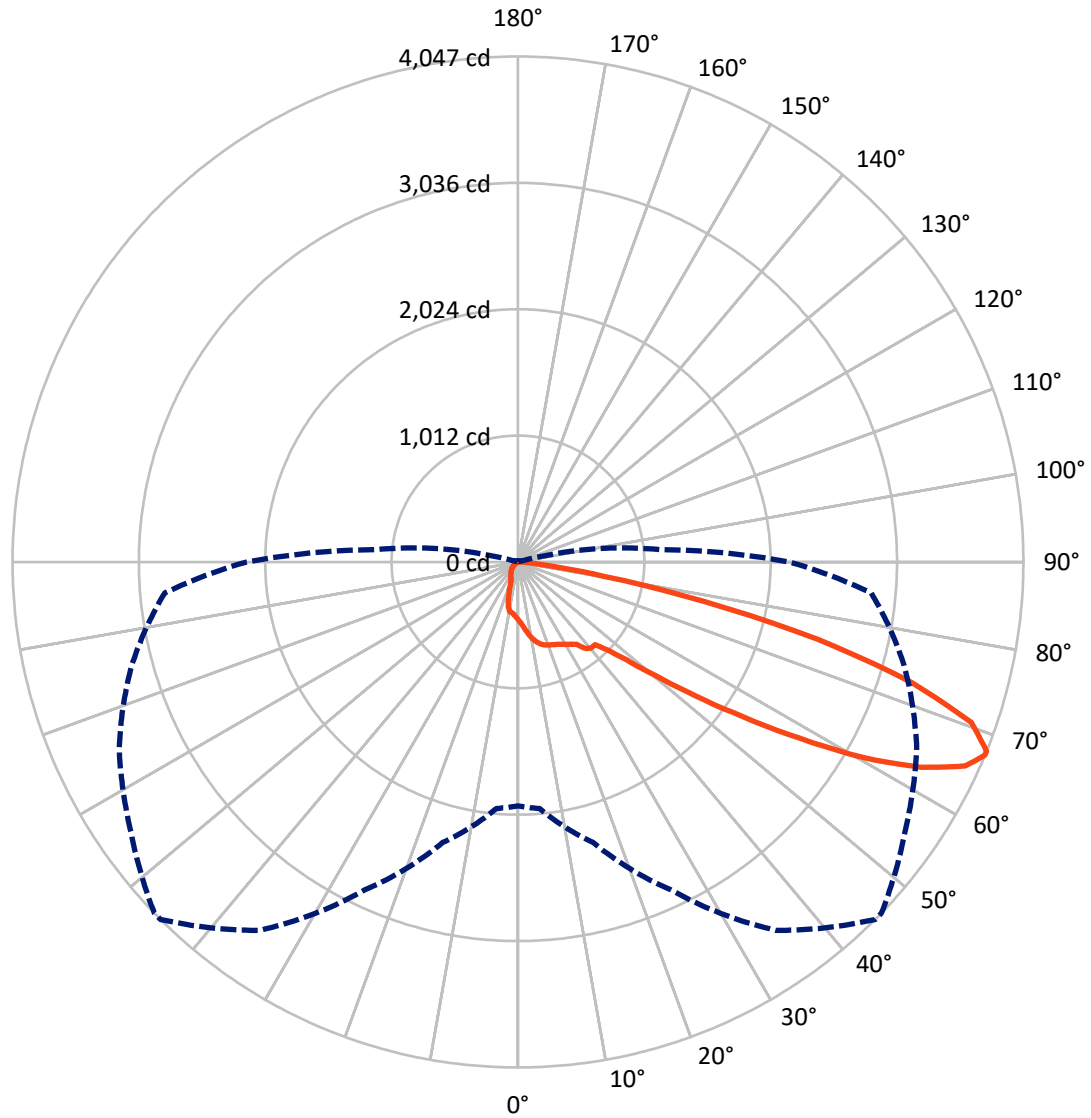
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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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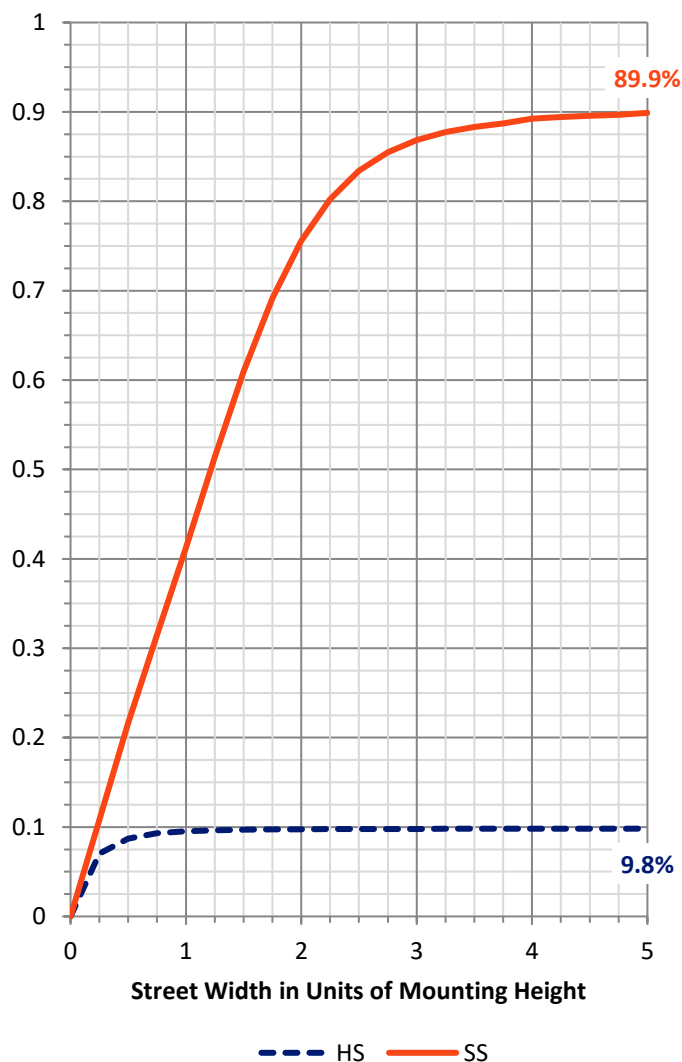
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	486.8	0.0	486.8
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	4426.2	0.0	4426.2
	% Fixture	90.1	0.0	90.1
Total	Lumens	4913.0	0.0	4913.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	0.9
10°-20°	141.0	2.9
20°-30°	225.5	4.6
30°-40°	324.6	6.6
40°-50°	569.4	11.6
50°-60°	1199.7	24.4
60°-70°	1659.1	33.8
70°-80°	694.6	14.1
80°-90°	52.5	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°	4913.0	100.0
0°-180°	4913.0	100.0

Coefficient of Utilization

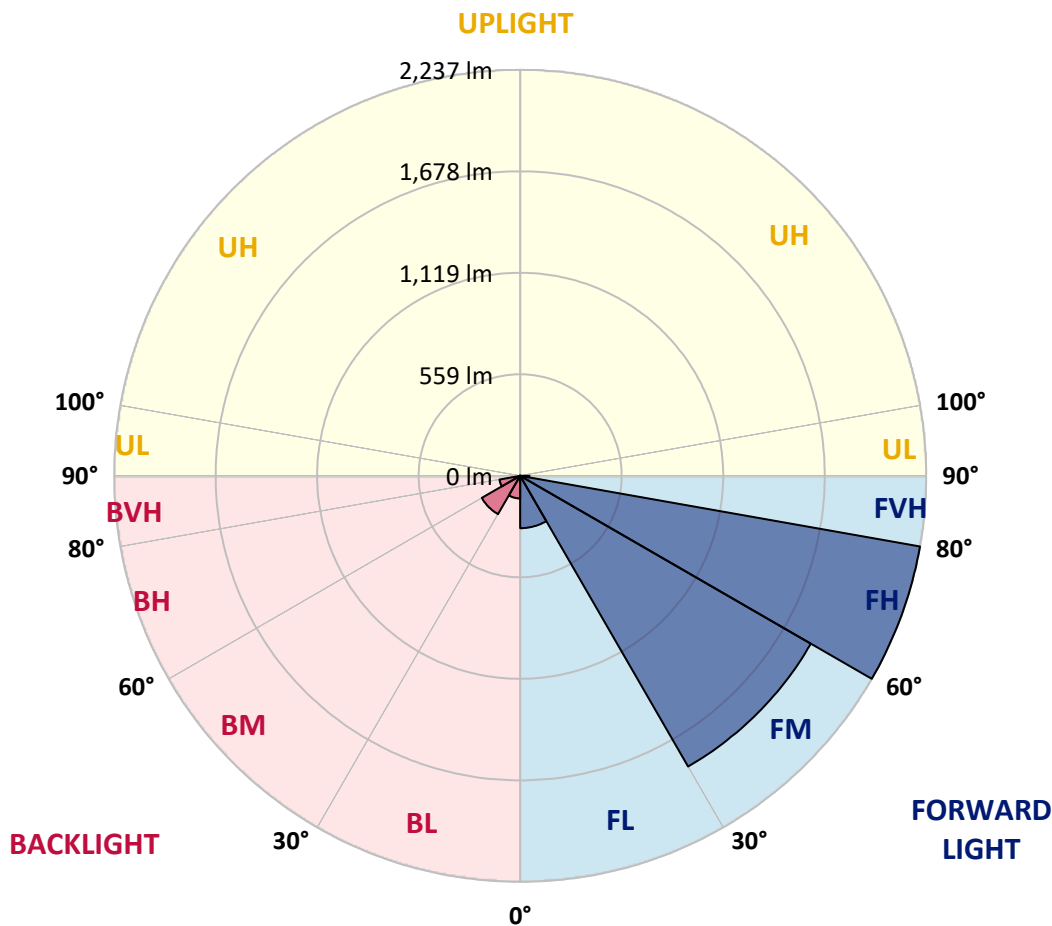


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	288.4	5.9			
FM (30°-60°)	1849.8	37.7			
FH (60°-80°)	2237.3	45.5			G2/5000
FVH (80°-90°)	50.7	1.0			G1/100
BL (0°-30°)	124.8	2.5	B1/500		
BM (30°-60°)	243.9	5.0	B1/1000		
BH (60°-80°)	116.4	2.4	B1/500		G1/500
BVH (80°-90°)	1.8	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°	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6
2.5°	517.3	508.2	506.4	504.6	499.1	491.9	493.7	488.2	479.2	473.7	468.3
5°	580.8	571.7	568.1	557.2	546.3	530.0	530.0	515.5	499.1	484.6	470.1
7.5°	646.1	638.9	631.6	615.3	598.9	577.2	575.4	553.6	528.2	506.4	482.8
10°	700.6	695.1	686.1	666.1	644.3	620.7	615.3	595.3	562.6	533.6	502.8
12.5°	744.1	738.7	726.0	706.0	678.8	655.2	653.4	628.0	595.3	564.5	526.3
15°	776.8	767.7	753.2	731.4	704.2	682.4	678.8	657.0	626.2	591.7	546.3
17.5°	782.3	776.8	764.1	740.5	716.9	698.8	697.0	680.6	653.4	617.1	569.9
20°	767.7	765.9	755.0	736.9	718.7	709.7	707.8	697.0	675.2	642.5	595.3
22.5°	746.0	744.1	736.9	727.8	720.6	718.7	718.7	715.1	702.4	671.5	628.0
25°	731.4	729.6	726.0	720.6	720.6	731.4	733.3	736.9	726.0	702.4	655.2
27.5°	733.3	729.6	726.0	720.6	727.8	747.8	749.6	758.7	749.6	727.8	686.1
30°	758.7	753.2	742.3	729.6	738.7	765.9	767.7	778.6	771.4	760.5	720.6
32.5°	798.6	795.0	773.2	751.4	756.9	784.1	787.7	807.7	816.7	800.4	751.4
35°	856.7	844.0	816.7	795.0	791.3	811.3	816.7	849.4	873.0	833.1	769.6
37.5°	903.9	893.0	849.4	814.9	834.9	880.3	882.1	922.0	902.1	836.7	798.6
40°	1063.6	1061.8	985.5	876.6	854.9	905.7	912.9	920.2	911.1	878.5	862.1
42.5°	1321.3	1299.5	1214.2	1047.2	898.4	903.9	907.5	945.6	992.8	978.3	983.7
45°	1600.8	1582.7	1486.5	1275.9	1047.2	1001.9	1005.5	1067.2	1158.0	1176.1	1205.2
47.5°	1858.6	1829.5	1775.1	1562.7	1301.3	1168.9	1176.1	1250.5	1401.2	1441.1	1486.5
50°	2076.3	2056.4	2005.6	1865.8	1613.5	1432.0	1439.3	1501.0	1697.0	1760.5	1818.6
52.5°	2392.2	2364.9	2266.9	2201.6	2011.0	1775.1	1758.7	1824.1	2049.1	2090.9	2168.9
55°	2682.6	2626.3	2568.2	2541.0	2461.1	2185.2	2179.8	2192.5	2379.5	2401.2	2541.0
57.5°	2806.0	2795.1	2844.1	2934.8	2953.0	2668.0	2644.4	2595.4	2742.5	2740.6	2904.0
60°	2884.0	2884.0	3014.7	3239.8	3385.0	3183.5	3150.8	2998.4	3051.0	3052.8	3203.5
62.5°	2835.0	2847.7	3051.0	3390.4	3682.6	3620.9	3599.1	3343.2	3339.6	3297.8	3350.5
65°	2531.9	2553.7	2880.4	3306.9	3791.5	3936.7	3927.6	3637.2	3532.0	3379.5	3261.5
67°	2065.5	2105.4	2501.1	3005.6	3668.1	4045.6	4047.4	3764.3	3533.8	3243.4	2947.5
67.5°	1952.9	1982.0	2325.0	2896.7	3600.9	4047.4	4047.4	3780.6	3522.9	3201.6	2838.6
70°	1245.1	1252.3	1626.2	2241.5	3076.4	3851.4	3865.9	3657.2	3208.9	2591.8	1992.9
72.5°	615.3	598.9	858.5	1442.9	2308.7	3296.0	3334.1	3123.6	2539.2	1693.4	1052.7
75°	241.4	257.7	373.9	767.7	1446.5	2484.7	2513.8	2272.4	1633.5	873.0	415.6
77.5°	107.1	107.1	159.7	344.8	760.5	1524.6	1539.1	1386.7	862.1	359.4	127.0
80°	58.1	61.7	83.5	150.6	383.0	700.6	764.1	687.9	390.2	157.9	43.6
82.5°	29.0	30.9	50.8	85.3	192.4	265.0	279.5	292.2	179.7	98.0	18.1
85°	10.9	12.7	27.2	49.0	87.1	88.9	88.9	114.3	98.0	74.4	9.1
87.5°	1.8	3.6	12.7	20.0	34.5	30.9	27.2	36.3	54.4	47.2	5.4
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°	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6	464.6
2.5°	464.6	461.0	453.7	448.3	444.7	441.0	437.4	437.4	435.6	435.6	437.4
5°	464.6	457.4	442.9	433.8	426.5	421.1	417.4	417.4	415.6	417.4	419.3
7.5°	473.7	462.8	442.9	426.5	417.4	408.4	404.7	402.9	402.9	404.7	402.9
10°	488.2	473.7	448.3	426.5	413.8	401.1	381.1	363.0	346.7	339.4	337.6
12.5°	506.4	488.2	457.4	432.0	412.0	368.4	314.0	279.5	257.7	246.8	243.2
15°	526.3	504.6	468.3	439.2	384.8	303.1	232.3	194.2	181.5	183.3	185.1
17.5°	548.1	524.5	484.6	435.6	330.3	225.1	170.6	161.5	167.0	172.4	172.4
20°	569.9	544.5	500.9	408.4	259.5	167.0	152.5	154.3	159.7	165.2	165.2
22.5°	598.9	571.7	517.3	361.2	192.4	145.2	145.2	148.8	152.5	157.9	157.9
25°	629.8	602.6	528.2	303.1	143.4	136.1	137.9	141.6	145.2	150.6	150.6
27.5°	662.5	635.2	526.3	234.1	125.2	125.2	127.0	132.5	136.1	141.6	141.6
30°	698.8	675.2	506.4	170.6	116.2	114.3	114.3	119.8	125.2	128.9	130.7
32.5°	729.6	709.7	471.9	128.9	108.9	105.3	103.5	105.3	110.7	114.3	116.2
35°	755.0	747.8	421.1	110.7	101.6	96.2	92.6	90.7	92.6	92.6	94.4
37.5°	802.2	804.0	361.2	103.5	96.2	88.9	81.7	76.2	72.6	70.8	69.0
40°	891.2	889.3	297.7	98.0	90.7	81.7	70.8	63.5	54.4	50.8	50.8
42.5°	1016.4	989.2	226.9	92.6	85.3	74.4	59.9	49.0	39.9	38.1	38.1
45°	1241.5	1128.9	170.6	88.9	79.9	65.3	49.0	36.3	30.9	29.0	29.0
47.5°	1490.1	1290.5	136.1	83.5	74.4	58.1	38.1	29.0	23.6	23.6	23.6
50°	1764.2	1444.7	114.3	78.0	65.3	49.0	30.9	23.6	21.8	20.0	21.8
52.5°	2063.6	1566.3	99.8	70.8	56.3	39.9	25.4	21.8	18.1	18.1	18.1
55°	2332.3	1648.0	83.5	61.7	47.2	32.7	23.6	18.1	16.3	14.5	12.7
57.5°	2575.5	1691.6	67.2	52.6	36.3	27.2	20.0	14.5	12.7	9.1	9.1
60°	2700.7	1651.6	52.6	41.7	29.0	21.8	16.3	12.7	9.1	5.4	5.4
62.5°	2720.7	1548.2	41.7	32.7	25.4	18.1	12.7	9.1	5.4	3.6	3.6
65°	2546.4	1366.7	34.5	27.2	20.0	14.5	10.9	7.3	3.6	1.8	1.8
67°	2234.3	1176.1	30.9	23.6	18.1	12.7	9.1	5.4	3.6	1.8	0.0
67.5°	2172.5	1141.6	29.0	23.6	18.1	12.7	9.1	5.4	3.6	1.8	0.0
70°	1426.6	789.5	27.2	21.8	16.3	10.9	7.3	5.4	1.8	0.0	0.0
72.5°	778.6	397.5	25.4	20.0	14.5	10.9	7.3	3.6	1.8	0.0	0.0
75°	285.0	150.6	21.8	18.1	12.7	10.9	7.3	3.6	1.8	0.0	0.0
77.5°	96.2	52.6	20.0	18.1	14.5	10.9	7.3	3.6	1.8	0.0	0.0
80°	32.7	23.6	16.3	14.5	10.9	9.1	7.3	3.6	1.8	0.0	0.0
82.5°	12.7	7.3	5.4	5.4	5.4	7.3	7.3	5.4	1.8	0.0	0.0
85°	5.4	3.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0
87.5°	5.4	3.6	1.8	1.8	1.8	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)