

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: P573458

Luminaire Tested: **ARCH-S-PA2-80-727-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573458
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-PA2-80-727-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 820mA 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: 7364 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

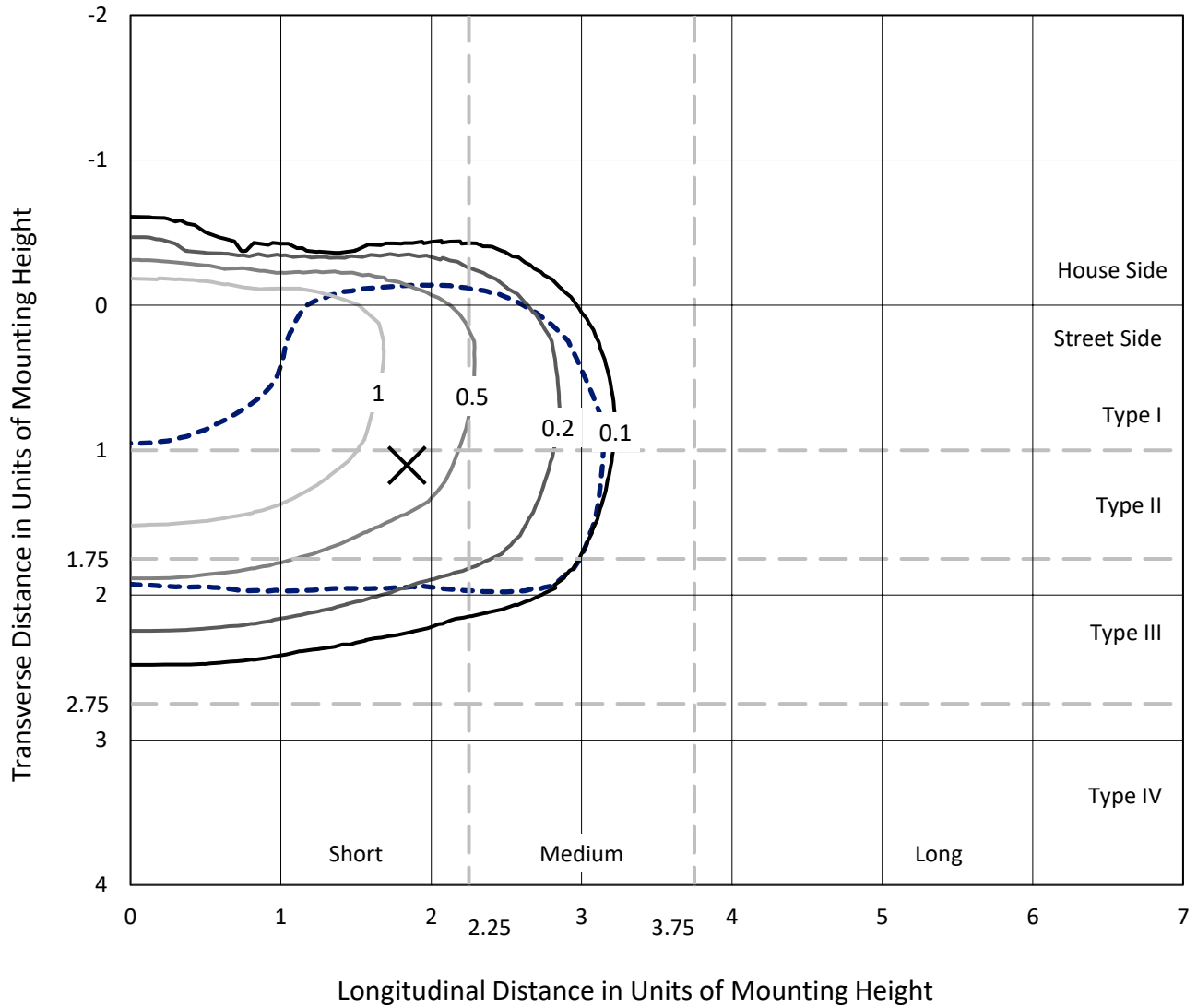
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

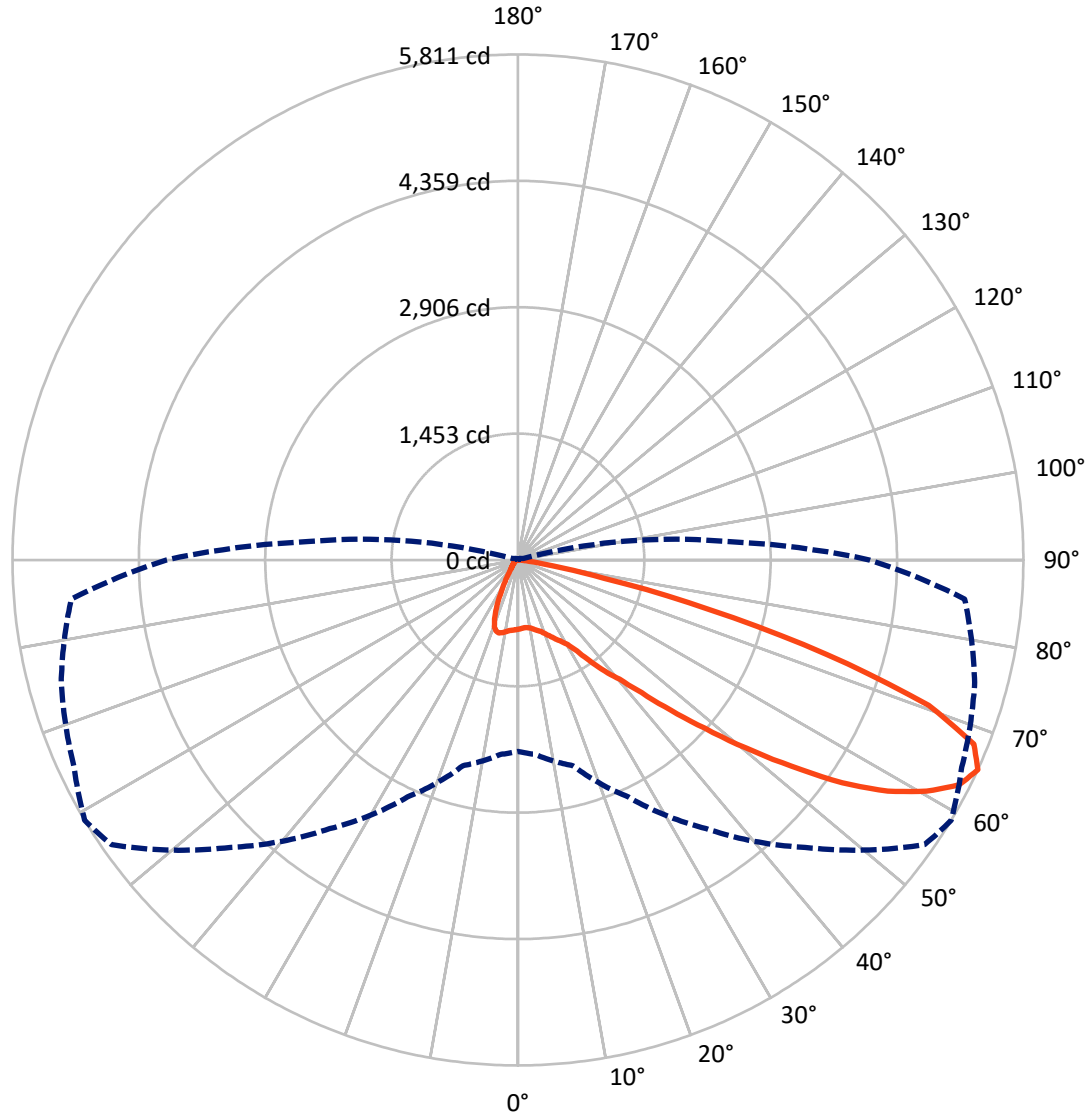
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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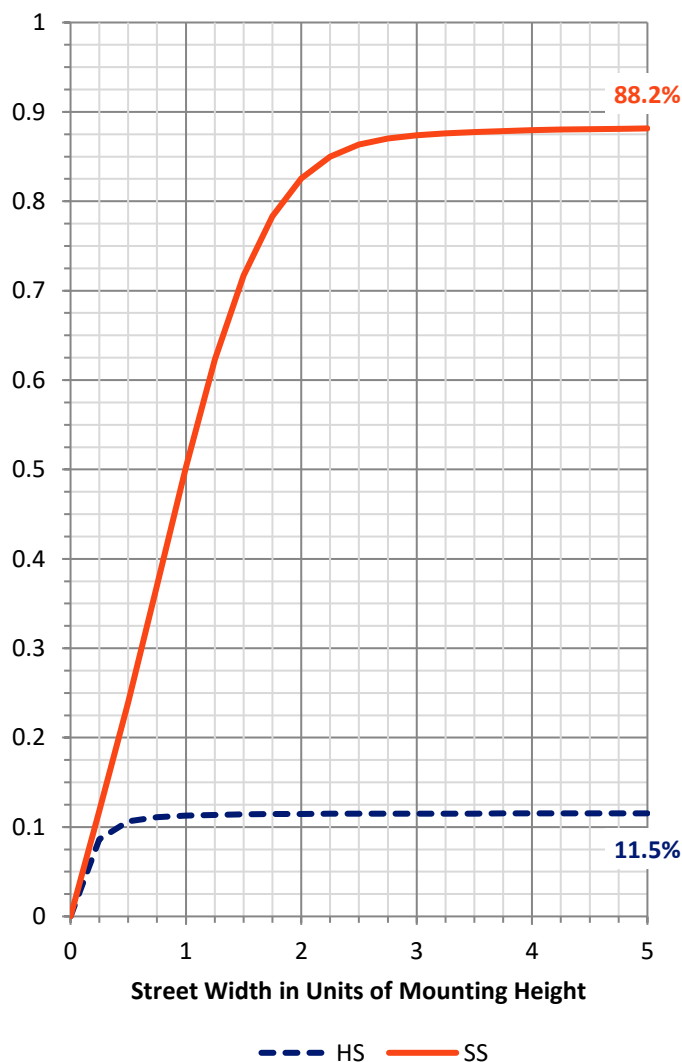
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	859.1	0.0	859.1
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	6504.9	0.0	6504.9
	% Fixture	88.3	0.0	88.3
Total	Lumens	7364.0	0.0	7364.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.2	1.0
10°-20°	213.6	2.9
20°-30°	362.8	4.9
30°-40°	642.7	8.7
40°-50°	1212.4	16.5
50°-60°	2051.4	27.9
60°-70°	2132.8	29.0
70°-80°	639.6	8.7
80°-90°	33.5	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°	7364.0	100.0
0°-180°	7364.0	100.0

Coefficient of Utilization



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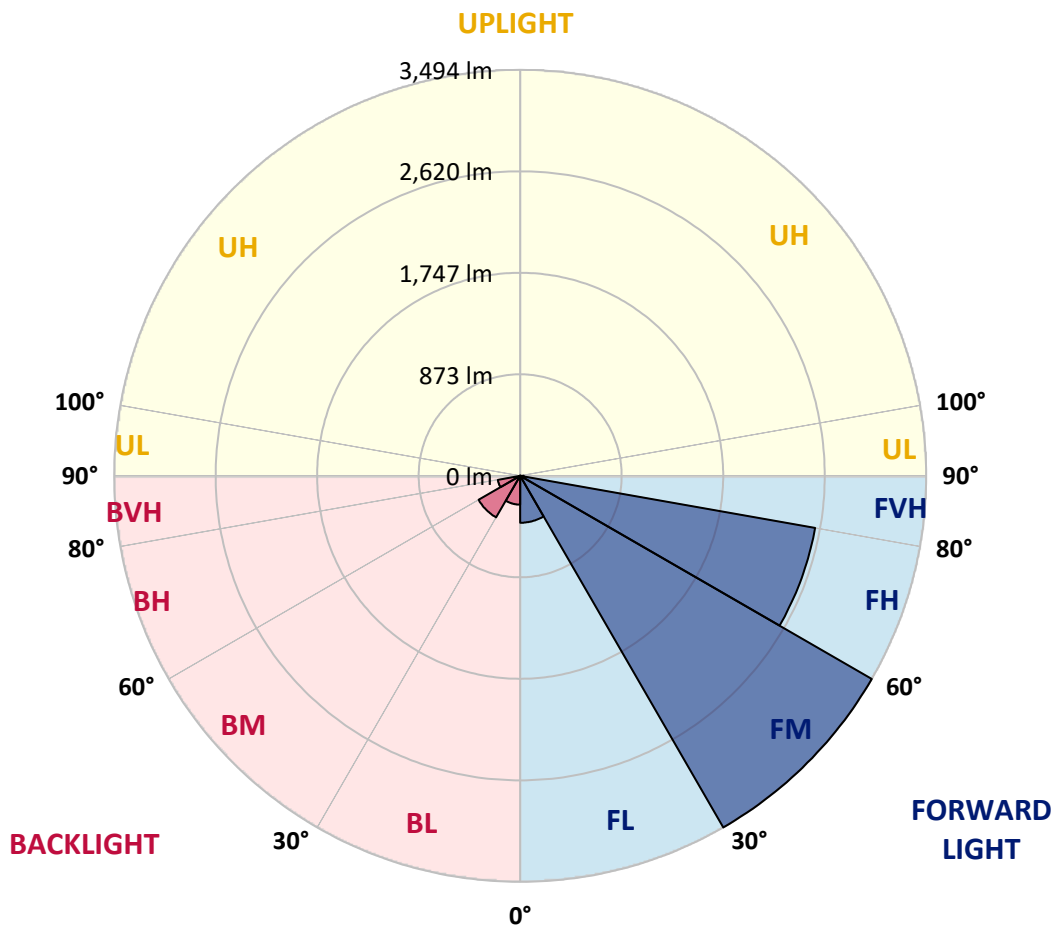
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	403.8	5.5			
FM (30°-60°)	3493.5	47.4			
FH (60°-80°)	2576.9	35.0			G2/5000
FVH (80°-90°)	30.7	0.4			G1/100
BL (0°-30°)	247.8	3.4	B1/500		
BM (30°-60°)	413.0	5.6	B1/1000		
BH (60°-80°)	195.5	2.7	B1/500		G1/500
BVH (80°-90°)	2.8	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°	55°	59°	65°	75°	85°
0°	795.8	795.8	795.8	795.8	795.8	795.8	795.8	795.8	795.8	795.8	795.8
2.5°	774.3	771.6	771.6	777.0	779.7	782.4	787.7	787.7	787.7	793.1	795.8
5°	736.8	736.8	739.5	744.8	755.6	763.6	779.7	782.4	785.0	798.4	803.8
7.5°	712.7	712.7	715.4	726.1	739.5	758.2	779.7	785.0	793.1	811.8	825.2
10°	710.0	707.3	712.7	723.4	739.5	763.6	787.7	795.8	811.8	835.9	854.7
12.5°	718.1	715.4	720.7	731.5	747.5	771.6	803.8	817.2	835.9	868.1	894.9
15°	723.4	720.7	726.1	739.5	758.2	787.7	825.2	841.3	865.4	911.0	937.8
17.5°	739.5	736.8	739.5	750.2	769.0	801.1	849.3	865.4	905.6	956.5	986.0
20°	811.8	809.1	793.1	787.7	790.4	819.9	881.5	908.3	956.5	1020.8	1042.2
22.5°	961.9	951.2	921.7	873.5	841.3	852.0	921.7	951.2	1015.5	1087.8	1103.9
25°	1162.8	1154.8	1111.9	1028.9	937.8	911.0	967.2	1007.4	1085.1	1165.5	1160.1
27.5°	1390.6	1374.5	1334.3	1219.1	1095.8	1007.4	1023.5	1058.3	1144.1	1229.8	1203.0
30°	1588.8	1583.5	1537.9	1441.5	1296.8	1165.5	1109.2	1128.0	1205.7	1296.8	1264.6
32.5°	1771.0	1754.9	1717.4	1626.3	1492.4	1358.4	1245.9	1245.9	1310.2	1417.4	1369.1
35°	1972.0	1961.3	1915.7	1824.6	1696.0	1537.9	1436.1	1425.4	1479.0	1599.5	1495.1
37.5°	2178.3	2151.5	2130.0	2036.3	1907.7	1771.0	1647.8	1623.7	1650.5	1738.9	1610.3
40°	2435.5	2435.5	2387.3	2301.5	2181.0	2036.3	1864.8	1803.2	1795.1	1910.3	1811.2
42.5°	2735.6	2727.5	2687.3	2607.0	2491.8	2357.8	2140.8	2084.5	2079.1	2218.5	2100.6
45°	3081.2	3075.8	3027.6	2960.6	2880.3	2732.9	2518.5	2462.3	2430.1	2590.9	2451.6
47.5°	3397.4	3378.6	3362.5	3370.6	3325.0	3158.9	2958.0	2891.0	2888.3	3014.2	2834.7
50°	3614.4	3603.7	3659.9	3713.5	3799.3	3694.8	3456.3	3397.4	3351.8	3517.9	3233.9
52.5°	3756.4	3751.0	3863.6	4016.3	4193.1	4185.1	3973.4	3938.6	3901.1	3946.6	3590.3
55°	3812.7	3812.7	3946.6	4227.9	4538.7	4672.7	4573.6	4525.3	4394.1	4300.3	3981.4
57.5°	3745.7	3737.6	3911.8	4278.8	4753.1	5029.1	5071.9	5015.7	4809.4	4704.9	4415.5
60°	3461.7	3467.0	3673.3	4136.8	4737.0	5173.7	5449.7	5398.8	5192.5	5037.1	4779.9
62.5°	2931.2	2976.7	3193.7	3697.4	4394.1	5058.5	5666.7	5693.5	5471.1	5278.2	5104.1
65°	2202.4	2242.6	2448.9	3006.2	3769.8	4672.7	5706.9	5811.4	5631.9	5436.3	5155.0
67.5°	1339.7	1353.0	1604.9	2025.6	2775.8	3893.0	5425.6	5653.3	5524.7	5203.2	4651.3
70°	624.3	659.1	782.4	1106.6	1757.6	2866.9	4688.8	5010.3	4865.6	4466.4	3536.7
72.5°	243.8	254.5	332.2	511.7	932.4	1803.2	3499.2	3713.5	3614.4	3172.3	2108.6
75°	120.6	128.6	160.8	243.8	426.0	744.8	2138.1	2277.4	2114.0	1594.2	892.2
77.5°	88.4	88.4	107.2	150.0	233.1	276.0	900.2	1010.1	953.8	616.2	243.8
80°	58.9	64.3	75.0	101.8	147.4	134.0	340.3	404.6	337.6	190.2	85.7
82.5°	34.8	37.5	56.3	72.3	99.1	77.7	115.2	128.6	139.3	93.8	40.2
85°	18.8	18.8	37.5	53.6	53.6	34.8	40.2	45.5	53.6	56.3	21.4
87.5°	5.4	5.4	24.1	32.2	21.4	18.8	21.4	21.4	24.1	29.5	10.7
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°	795.8	795.8	795.8	795.8	795.8	795.8	795.8	795.8	795.8	795.8	795.8
2.5°	798.4	798.4	801.1	801.1	803.8	803.8	803.8	803.8	806.5	809.1	809.1
5°	806.5	809.1	809.1	809.1	809.1	803.8	801.1	798.4	798.4	801.1	801.1
7.5°	827.9	830.6	827.9	822.5	814.5	803.8	793.1	793.1	790.4	793.1	790.4
10°	860.1	860.1	857.4	844.0	830.6	809.1	787.7	771.6	760.9	758.2	752.9
12.5°	900.2	900.2	892.2	868.1	844.0	803.8	747.5	693.9	651.1	632.3	627.0
15°	940.4	940.4	929.7	894.9	846.7	750.2	632.3	519.8	455.5	428.7	412.6
17.5°	988.7	983.3	964.5	916.3	817.2	643.0	452.8	337.6	286.7	262.6	262.6
20°	1039.6	1034.2	999.4	919.0	742.2	460.8	294.7	233.1	219.7	214.3	214.3
22.5°	1095.8	1082.4	1028.9	897.6	584.1	313.5	222.4	206.3	200.9	198.3	198.3
25°	1141.4	1119.9	1050.3	838.6	418.0	219.7	195.6	190.2	179.5	176.8	171.5
27.5°	1176.2	1144.1	1058.3	712.7	276.0	182.2	174.2	163.4	152.7	142.0	142.0
30°	1221.8	1181.6	1063.7	554.6	187.6	158.1	150.0	136.6	123.2	112.5	112.5
32.5°	1312.9	1253.9	1066.4	388.5	155.4	139.3	123.2	107.2	93.8	88.4	85.7
35°	1412.0	1331.6	1036.9	251.9	136.6	117.9	99.1	85.7	72.3	69.7	69.7
37.5°	1521.8	1446.8	972.6	171.5	120.6	99.1	80.4	67.0	58.9	56.3	56.3
40°	1706.7	1618.3	865.4	136.6	104.5	83.1	67.0	56.3	50.9	48.2	48.2
42.5°	1972.0	1819.2	731.5	117.9	91.1	69.7	53.6	45.5	42.9	40.2	40.2
45°	2277.4	2044.3	576.1	107.2	80.4	58.9	45.5	40.2	37.5	34.8	34.8
47.5°	2628.4	2277.4	455.5	93.8	69.7	50.9	40.2	34.8	32.2	29.5	29.5
50°	2960.6	2459.6	343.0	83.1	61.6	42.9	34.8	32.2	29.5	26.8	26.8
52.5°	3233.9	2582.8	259.9	72.3	53.6	37.5	32.2	29.5	24.1	24.1	24.1
55°	3563.5	2679.3	198.3	64.3	48.2	34.8	29.5	24.1	21.4	18.8	18.8
57.5°	3850.2	2714.1	144.7	56.3	42.9	32.2	26.8	21.4	16.1	13.4	13.4
60°	4043.1	2684.7	104.5	48.2	37.5	26.8	21.4	16.1	10.7	8.0	8.0
62.5°	4179.7	2620.4	80.4	42.9	32.2	24.1	18.8	13.4	8.0	5.4	5.4
65°	4043.1	2422.1	64.3	37.5	26.8	21.4	13.4	10.7	5.4	2.7	2.7
67.5°	3496.5	2030.9	50.9	32.2	24.1	18.8	13.4	8.0	2.7	0.0	0.0
70°	2513.2	1449.5	42.9	29.5	21.4	16.1	10.7	5.4	2.7	0.0	0.0
72.5°	1401.3	747.5	40.2	26.8	21.4	16.1	10.7	5.4	2.7	0.0	0.0
75°	568.0	257.2	37.5	26.8	21.4	13.4	10.7	5.4	2.7	0.0	0.0
77.5°	166.1	88.4	32.2	24.1	21.4	16.1	10.7	5.4	2.7	0.0	0.0
80°	58.9	40.2	24.1	21.4	16.1	13.4	10.7	8.0	2.7	0.0	0.0
82.5°	26.8	16.1	10.7	8.0	8.0	8.0	8.0	5.4	2.7	0.0	0.0
85°	10.7	8.0	5.4	2.7	2.7	2.7	2.7	2.7	2.7	0.0	0.0
87.5°	8.0	5.4	2.7	2.7	2.7	2.7	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)