

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: P573456

Luminaire Tested: **ARCH-S-PA2-80-727-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-16)
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-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 820mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6798 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

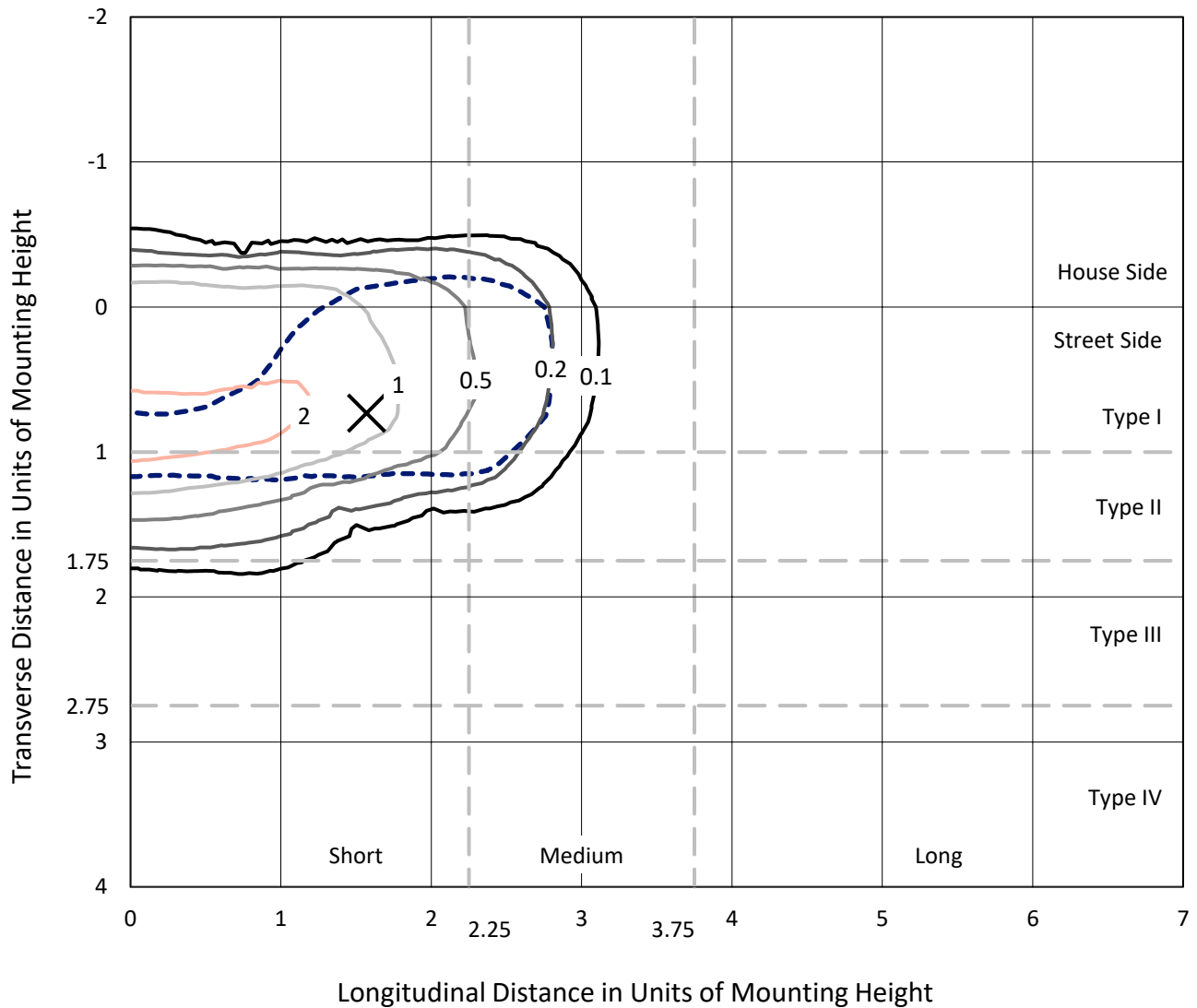
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

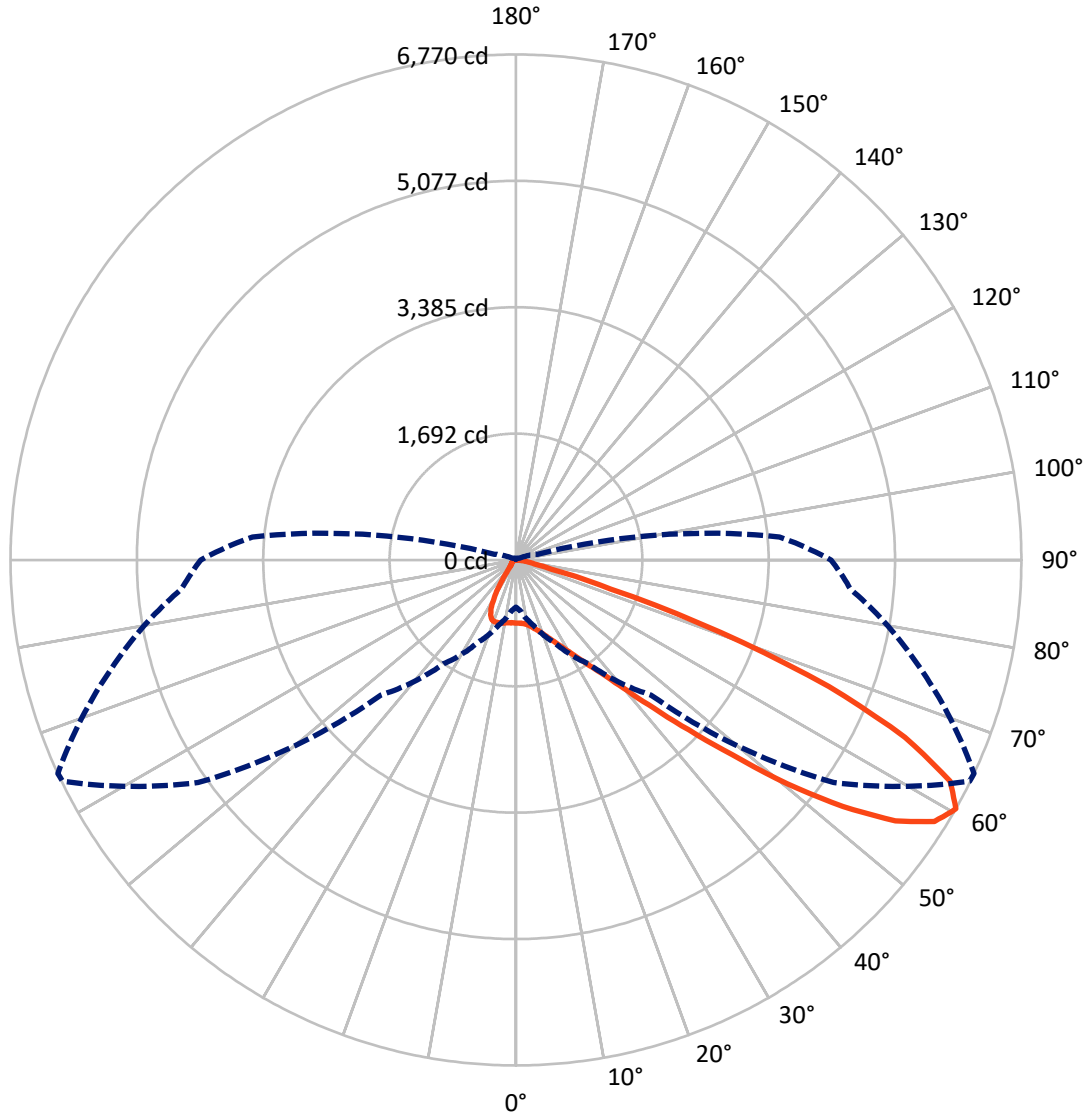
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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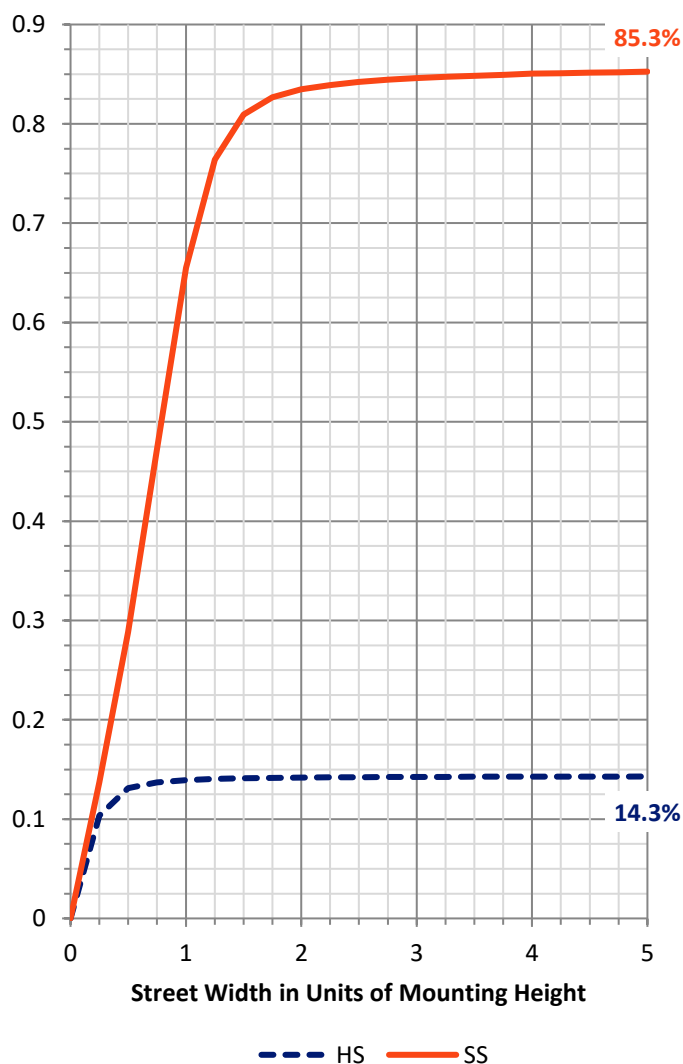
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	984.2	0.0	984.2
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	5813.8	0.0	5813.8
	% Fixture	85.5	0.0	85.5
Total	Lumens	6798.0	0.0	6798.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	1.2
10°-20°	227.1	3.3
20°-30°	385.7	5.7
30°-40°	795.9	11.7
40°-50°	1600.7	23.5
50°-60°	1958.7	28.8
60°-70°	1385.7	20.4
70°-80°	333.9	4.9
80°-90°	30.2	0.4
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°	6798.0	100.0
0°-180°	6798.0	100.0

Coefficient of Utilization

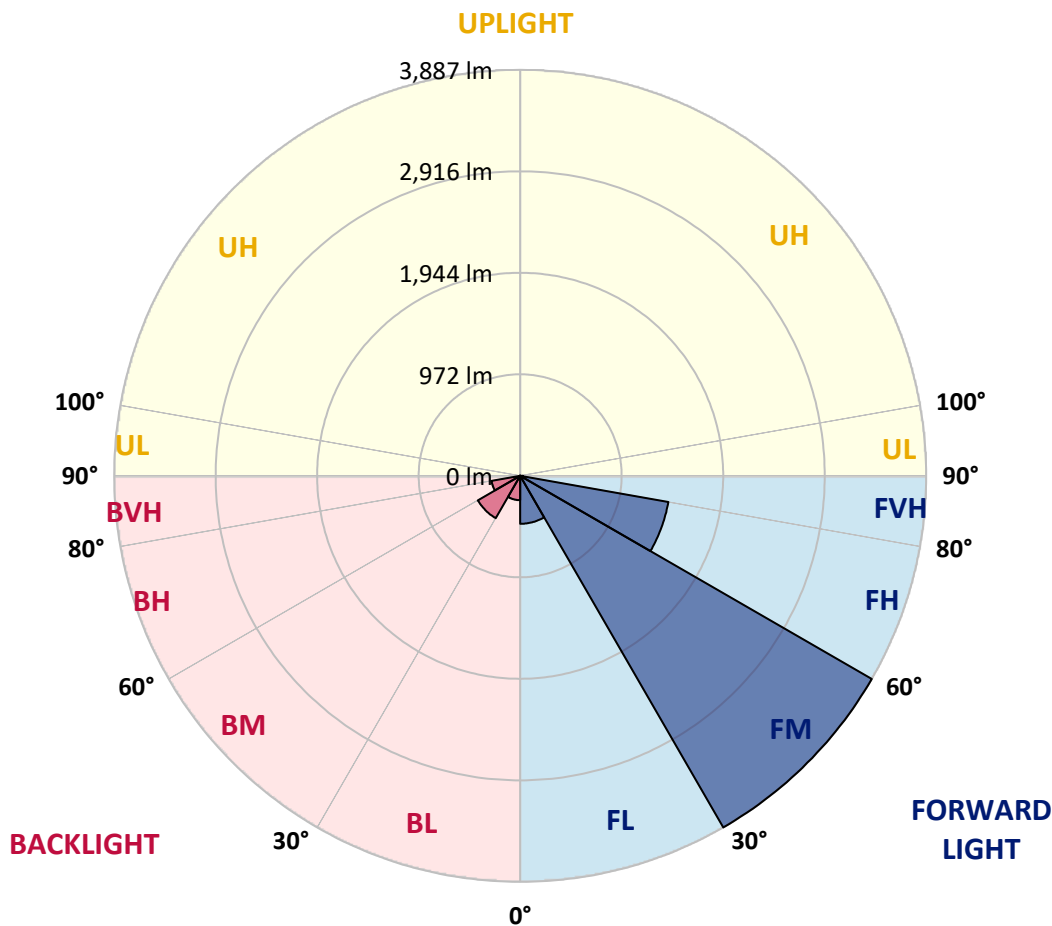


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	459.5	6.8			
FM (30°-60°)	3887.4	57.2			
FH (60°-80°)	1440.7	21.2			G1/1800
FVH (80°-90°)	26.2	0.4			G1/100
BL (0°-30°)	233.3	3.4	B1/500		
BM (30°-60°)	468.0	6.9	B1/1000		
BH (60°-80°)	279.0	4.1	B1/500		G1/500
BVH (80°-90°)	3.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	846.9	846.9	846.9	846.9	846.9	846.9	846.9	846.9	846.9	846.9	846.9
2.5°	849.5	846.9	846.9	846.9	849.5	849.5	852.2	846.9	846.9	846.9	846.9
5°	844.2	841.5	841.5	844.2	846.9	846.9	852.2	852.2	852.2	854.9	854.9
7.5°	854.9	849.5	849.5	852.2	854.9	854.9	860.3	862.9	862.9	868.3	871.0
10°	868.3	865.6	865.6	871.0	876.3	876.3	884.4	884.4	884.4	889.7	892.4
12.5°	887.1	884.4	884.4	892.4	900.5	905.8	911.2	913.9	916.5	916.5	916.5
15°	913.9	911.2	911.2	919.2	929.9	943.3	951.4	951.4	956.7	954.1	943.3
17.5°	951.4	948.7	951.4	956.7	970.1	983.5	999.6	1002.3	999.6	994.3	978.2
20°	1013.0	1005.0	1010.3	1023.7	1023.7	1031.8	1053.2	1061.3	1063.9	1047.9	1018.4
22.5°	1077.3	1077.3	1082.7	1098.8	1088.1	1098.8	1117.5	1130.9	1136.3	1122.9	1074.7
25°	1197.9	1203.3	1195.3	1189.9	1163.1	1168.5	1192.6	1219.4	1219.4	1208.7	1139.0
27.5°	1463.2	1457.9	1401.6	1323.9	1254.2	1259.6	1283.7	1318.5	1321.2	1297.1	1203.3
30°	1843.8	1849.2	1739.3	1562.4	1409.6	1369.4	1396.2	1436.4	1441.8	1401.6	1286.4
32.5°	2438.7	2393.2	2189.5	1953.7	1666.9	1522.2	1532.9	1575.8	1591.9	1557.0	1417.7
35°	3207.9	3100.7	2795.2	2503.1	2087.7	1795.6	1712.5	1758.0	1766.1	1747.3	1581.2
37.5°	3666.2	3580.4	3382.1	3116.8	2629.0	2160.0	1948.3	1993.9	1985.8	1948.3	1744.6
40°	3950.2	3902.0	3794.8	3671.5	3360.6	2733.5	2336.9	2299.4	2302.1	2248.5	2010.0
42.5°	4111.0	4068.1	4027.9	4060.1	3969.0	3773.4	2899.7	2728.2	2712.1	2610.3	2318.1
45°	4119.1	4054.7	4103.0	4290.6	4435.3	4695.3	3634.0	3237.4	3245.4	3076.6	2701.4
47.5°	3810.9	3760.0	3899.3	4266.5	4746.2	5298.2	4488.9	3934.2	3896.6	3564.3	3090.0
50°	3202.5	3199.8	3384.8	3904.7	4746.2	5609.1	5405.4	4751.5	4711.3	4073.5	3443.7
52.5°	2535.2	2586.1	2712.1	3205.2	4309.3	5579.6	6080.8	5595.7	5483.2	4526.4	3738.5
55°	1972.4	1953.7	2106.4	2446.8	3416.9	5070.4	6300.5	6260.3	6166.5	4928.4	3998.5
57.5°	1211.3	1281.0	1487.4	1790.2	2487.0	3987.8	5984.3	6665.0	6608.7	5303.6	4269.1
60°	629.8	683.4	905.8	1222.1	1699.1	2556.7	5193.7	6758.8	6769.5	5606.4	4499.6
62.5°	396.6	394.0	495.8	857.6	1093.4	1436.4	4033.3	6426.5	6528.3	5839.6	4719.4
65°	297.5	300.2	340.4	568.1	742.3	750.4	2393.2	5558.2	5727.0	5901.2	4794.4
67.5°	276.0	278.7	297.5	372.5	557.4	501.1	1053.2	4285.2	4521.1	5333.1	4505.0
70°	246.6	249.2	278.7	308.2	420.8	367.2	474.3	2580.8	2907.7	3869.8	3604.5
72.5°	193.0	198.3	233.2	292.1	313.6	278.7	329.6	1141.7	1331.9	2127.9	2063.6
75°	142.0	144.7	176.9	225.1	276.0	198.3	254.6	452.9	495.8	798.6	680.7
77.5°	99.2	99.2	123.3	168.8	230.5	139.4	182.2	243.9	249.2	297.5	195.6
80°	61.6	64.3	77.7	115.2	142.0	134.0	112.6	163.5	163.5	155.4	80.4
82.5°	34.8	37.5	53.6	77.7	96.5	91.1	72.4	93.8	96.5	99.2	45.6
85°	16.1	18.8	32.2	48.2	56.3	42.9	42.9	48.2	48.2	64.3	26.8
87.5°	2.7	2.7	16.1	21.4	18.8	21.4	21.4	26.8	26.8	32.2	13.4
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°	846.9	846.9	846.9	846.9	846.9	846.9	846.9	846.9	846.9	846.9	846.9
2.5°	844.2	844.2	844.2	841.5	841.5	838.8	833.5	833.5	833.5	833.5	836.1
5°	854.9	852.2	849.5	841.5	836.1	825.4	814.7	812.0	804.0	804.0	806.7
7.5°	868.3	868.3	860.3	846.9	833.5	814.7	795.9	782.5	769.1	766.5	763.8
10°	892.4	887.1	879.0	854.9	833.5	804.0	774.5	739.7	712.9	699.5	694.1
12.5°	911.2	908.5	892.4	865.6	830.8	785.2	718.2	637.8	573.5	538.7	538.7
15°	938.0	932.6	908.5	871.0	822.7	715.5	578.9	455.6	385.9	348.4	343.0
17.5°	964.8	954.1	924.6	873.7	787.9	589.6	404.7	292.1	243.9	225.1	219.8
20°	996.9	978.2	935.3	876.3	702.1	428.8	262.6	195.6	176.9	168.8	171.5
22.5°	1039.8	1007.7	946.0	860.3	573.5	278.7	184.9	158.1	147.4	139.4	139.4
25°	1093.4	1047.9	964.8	814.7	415.4	187.6	147.4	131.3	120.6	115.2	112.6
27.5°	1141.7	1085.4	983.5	734.3	265.3	147.4	123.3	109.9	99.2	96.5	93.8
30°	1206.0	1128.3	1002.3	605.7	174.2	120.6	104.5	91.1	83.1	80.4	80.4
32.5°	1315.9	1211.3	1037.1	460.9	131.3	104.5	88.4	77.7	72.4	69.7	69.7
35°	1444.5	1313.2	1066.6	321.6	112.6	88.4	75.0	67.0	64.3	61.6	61.6
37.5°	1578.5	1433.8	1072.0	203.7	99.2	77.7	67.0	61.6	56.3	56.3	56.3
40°	1819.7	1645.5	1047.9	136.7	85.8	69.7	59.0	56.3	50.9	50.9	50.9
42.5°	2101.1	1902.8	986.2	109.9	77.7	61.6	56.3	50.9	45.6	45.6	42.9
45°	2465.5	2194.9	881.7	96.5	69.7	56.3	50.9	45.6	42.9	40.2	40.2
47.5°	2808.6	2527.2	782.5	85.8	64.3	53.6	45.6	40.2	37.5	37.5	37.5
50°	3135.5	2781.8	667.3	80.4	59.0	50.9	42.9	37.5	34.8	32.2	32.2
52.5°	3371.4	2982.8	560.1	72.4	53.6	45.6	40.2	34.8	29.5	26.8	26.8
55°	3634.0	3186.4	463.6	64.3	50.9	42.9	34.8	29.5	24.1	21.4	21.4
57.5°	3928.8	3384.8	375.2	59.0	48.2	37.5	29.5	24.1	18.8	16.1	16.1
60°	4220.9	3542.9	300.2	53.6	42.9	34.8	26.8	18.8	13.4	10.7	10.7
62.5°	4513.0	3650.1	230.5	48.2	40.2	29.5	21.4	13.4	8.0	5.4	5.4
65°	4633.6	3620.6	171.5	42.9	34.8	24.1	18.8	13.4	8.0	5.4	5.4
67.5°	4298.6	3256.1	120.6	42.9	32.2	24.1	16.1	10.7	5.4	2.7	2.7
70°	3355.3	2513.8	88.4	42.9	32.2	24.1	16.1	10.7	5.4	2.7	2.7
72.5°	1902.8	1398.9	67.0	37.5	29.5	21.4	16.1	10.7	5.4	2.7	2.7
75°	678.0	450.2	50.9	34.8	26.8	18.8	16.1	10.7	5.4	2.7	2.7
77.5°	163.5	115.2	40.2	29.5	24.1	18.8	13.4	10.7	8.0	2.7	2.7
80°	67.0	48.2	32.2	24.1	18.8	16.1	13.4	10.7	5.4	2.7	2.7
82.5°	29.5	24.1	13.4	13.4	10.7	10.7	10.7	10.7	5.4	2.7	2.7
85°	13.4	10.7	5.4	5.4	2.7	2.7	2.7	5.4	5.4	2.7	2.7
87.5°	8.0	5.4	5.4	5.4	2.7	2.7	2.7	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)