

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: P573546

Luminaire Tested: **ARCH-S-PA2-90-730-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573546
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-PA2-90-730-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 910mA 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: 8032 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

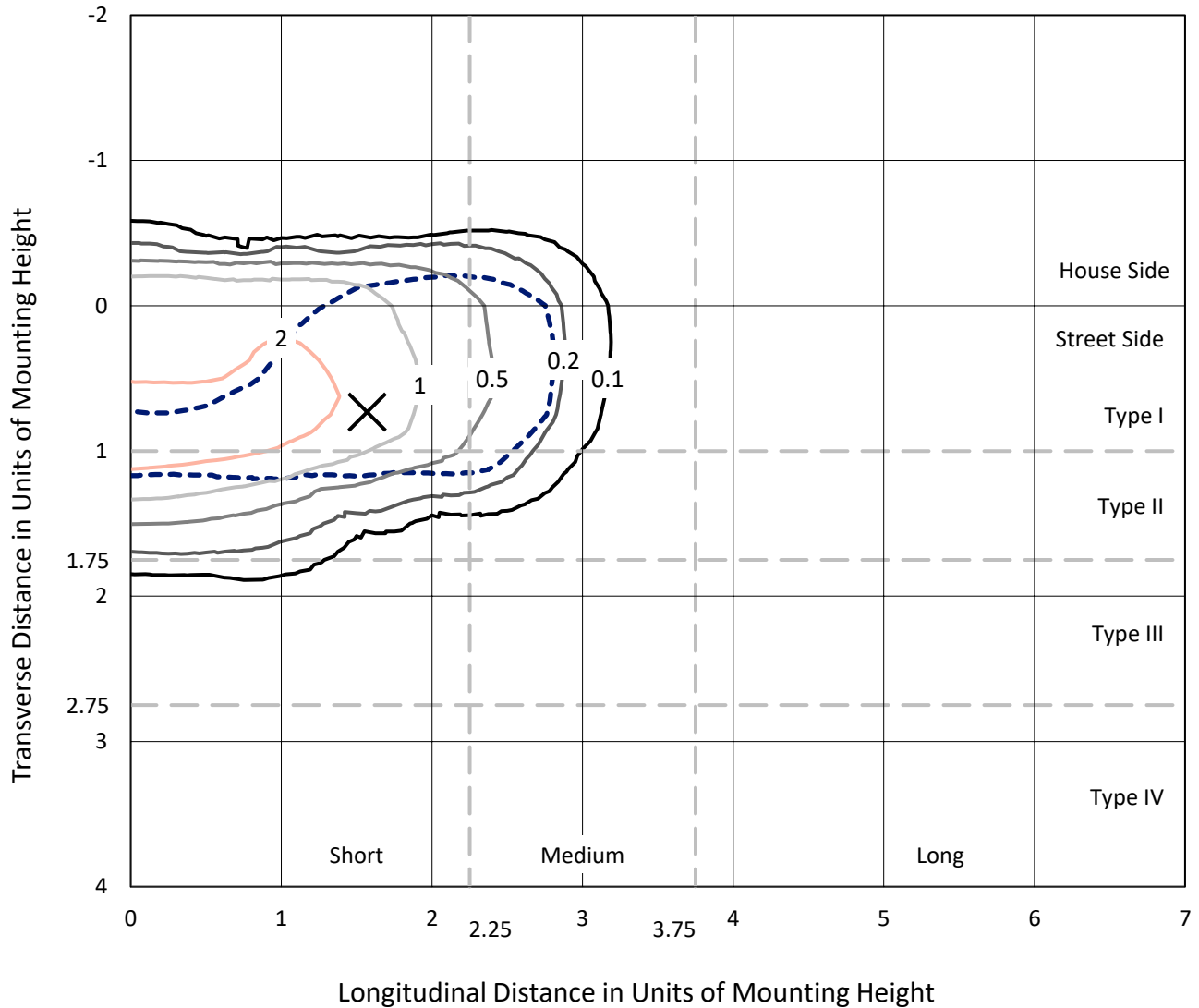
Input Watts (W): 92.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

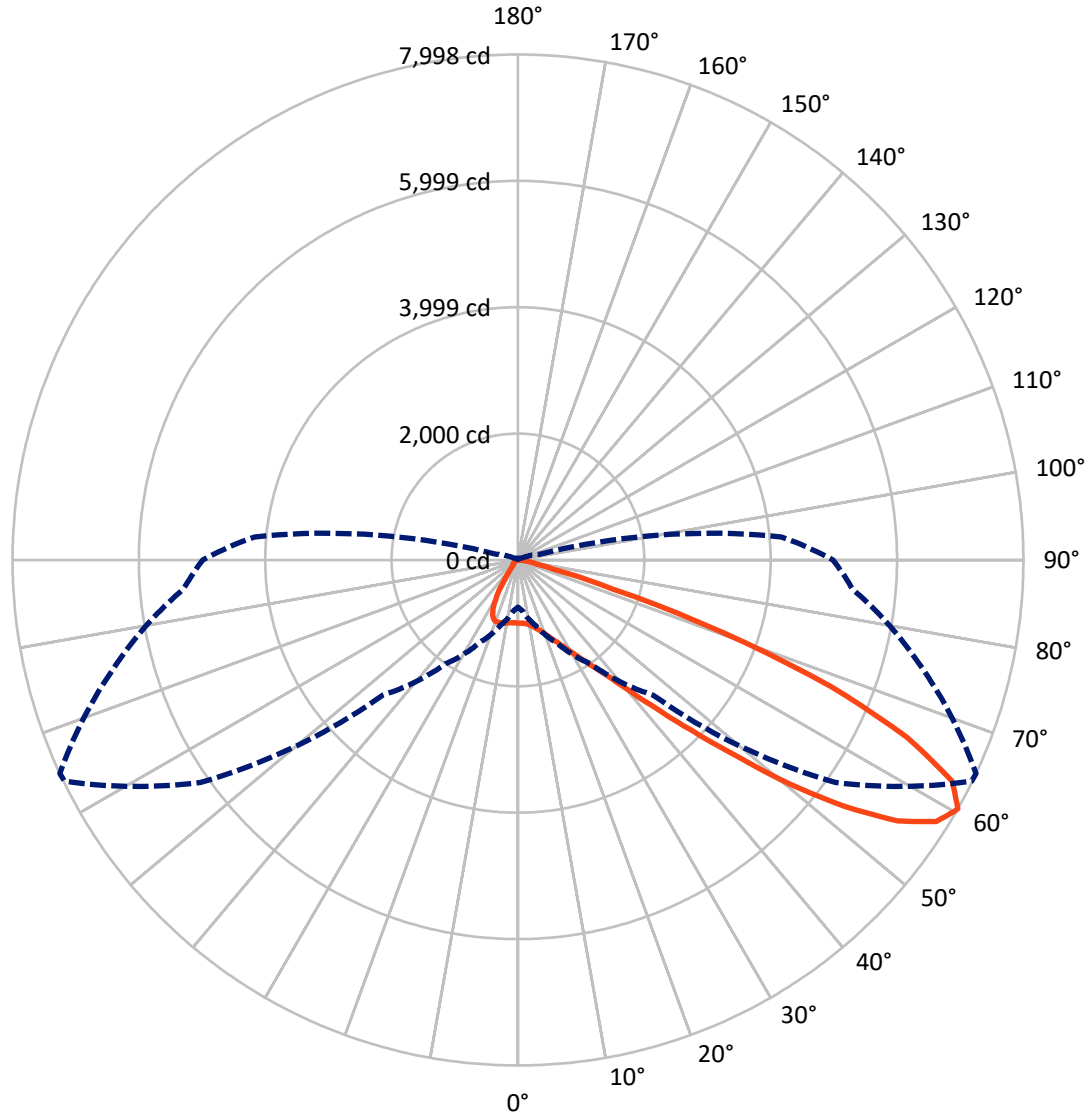
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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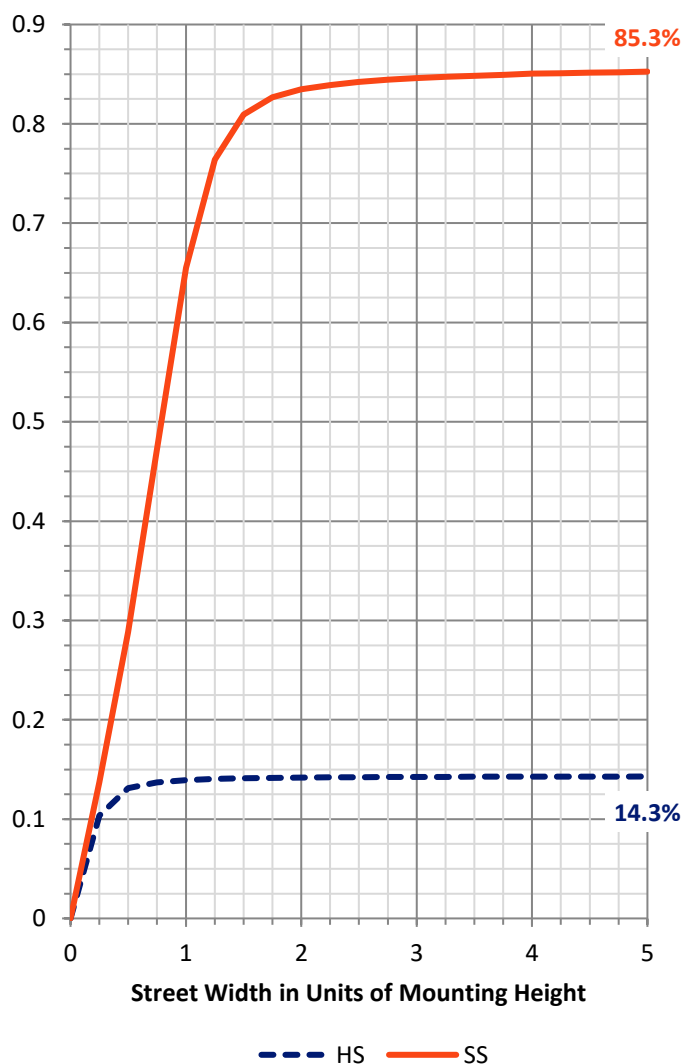
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1162.8	0.0	1162.8
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	6869.2	0.0	6869.2
	% Fixture	85.5	0.0	85.5
Total	Lumens	8032.0	0.0	8032.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.6	1.2
10°-20°	268.3	3.3
20°-30°	455.7	5.7
30°-40°	940.4	11.7
40°-50°	1891.2	23.5
50°-60°	2314.3	28.8
60°-70°	1637.3	20.4
70°-80°	394.6	4.9
80°-90°	35.6	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°	8032.0	100.0
0°-180°	8032.0	100.0

Coefficient of Utilization

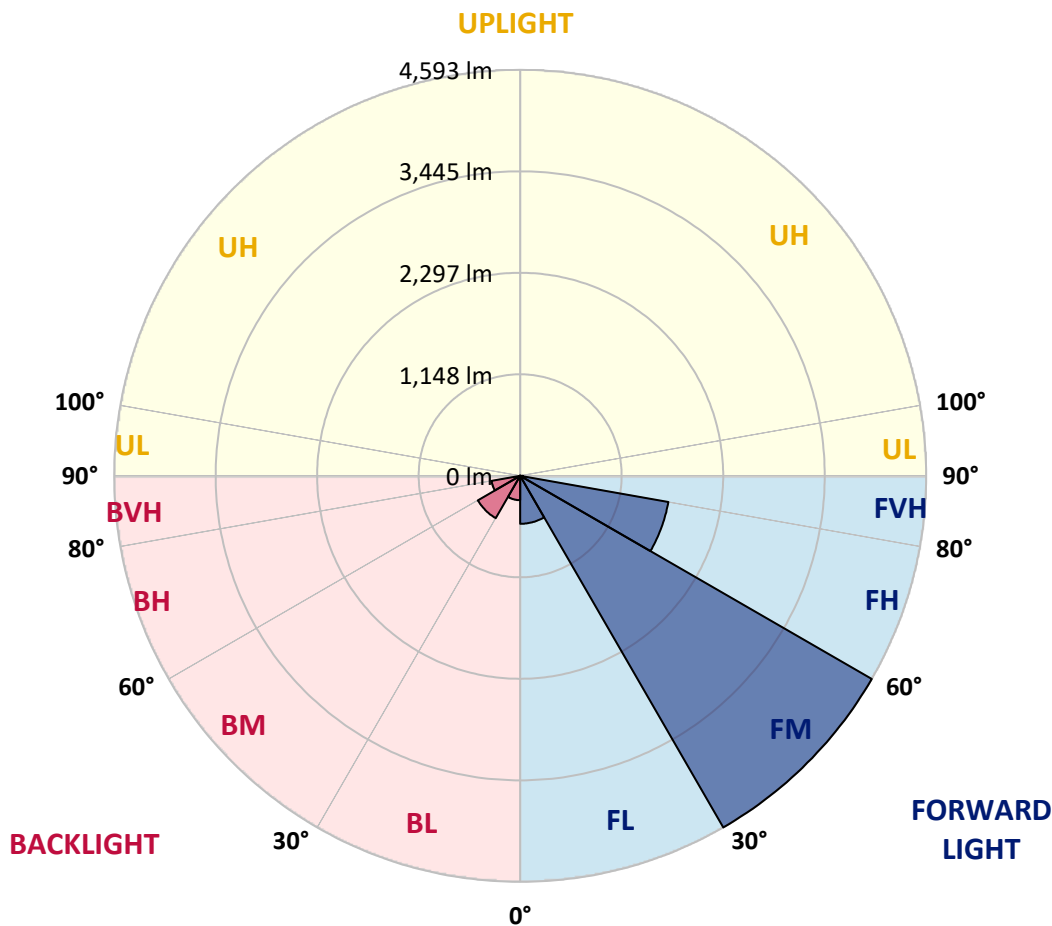


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	542.9	6.8			
FM (30°-60°)	4593.0	57.2			
FH (60°-80°)	1702.2	21.2			G1/1800
FVH (80°-90°)	31.0	0.4			G1/100
BL (0°-30°)	275.7	3.4	B1/500		
BM (30°-60°)	552.9	6.9	B1/1000		
BH (60°-80°)	329.6	4.1	B1/500		G1/500
BVH (80°-90°)	4.6	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°	1000.6	1000.6	1000.6	1000.6	1000.6	1000.6	1000.6	1000.6	1000.6	1000.6	1000.6
2.5°	1003.8	1000.6	1000.6	1000.6	1003.8	1003.8	1006.9	1000.6	1000.6	1000.6	1000.6
5°	997.4	994.3	994.3	997.4	1000.6	1000.6	1006.9	1006.9	1006.9	1010.1	1010.1
7.5°	1010.1	1003.8	1003.8	1006.9	1010.1	1010.1	1016.4	1019.6	1019.6	1025.9	1029.1
10°	1025.9	1022.8	1022.8	1029.1	1035.4	1035.4	1044.9	1044.9	1044.9	1051.2	1054.4
12.5°	1048.1	1044.9	1044.9	1054.4	1063.9	1070.2	1076.6	1079.7	1082.9	1082.9	1082.9
15°	1079.7	1076.6	1076.6	1086.1	1098.7	1114.6	1124.1	1124.1	1130.4	1127.2	1114.6
17.5°	1124.1	1120.9	1124.1	1130.4	1146.2	1162.1	1181.1	1184.2	1181.1	1174.7	1155.7
20°	1196.9	1187.4	1193.7	1209.6	1209.6	1219.1	1244.4	1253.9	1257.1	1238.1	1203.2
22.5°	1272.9	1272.9	1279.2	1298.2	1285.6	1298.2	1320.4	1336.2	1342.6	1326.7	1269.7
25°	1415.4	1421.7	1412.2	1405.9	1374.2	1380.6	1409.1	1440.7	1440.7	1428.1	1345.7
27.5°	1728.9	1722.5	1656.0	1564.2	1481.9	1488.2	1516.7	1557.9	1561.0	1532.5	1421.7
30°	2178.5	2184.8	2055.0	1846.0	1665.5	1618.0	1649.7	1697.2	1703.5	1656.0	1519.9
32.5°	2881.4	2827.6	2587.0	2308.3	1969.5	1798.5	1811.2	1861.9	1880.8	1839.7	1675.0
35°	3790.2	3663.5	3302.6	2957.4	2466.6	2121.5	2023.3	2077.2	2086.7	2064.5	1868.2
37.5°	4331.7	4230.3	3996.0	3682.5	3106.3	2552.1	2302.0	2355.8	2346.3	2302.0	2061.3
40°	4667.3	4610.3	4483.6	4338.0	3970.7	3229.7	2761.1	2716.8	2719.9	2656.6	2374.8
42.5°	4857.3	4806.6	4759.1	4797.1	4689.5	4458.3	3426.1	3223.4	3204.4	3084.1	2738.9
45°	4866.8	4790.8	4847.8	5069.4	5240.4	5547.6	4293.7	3825.0	3834.5	3635.0	3191.7
47.5°	4502.6	4442.5	4607.1	5040.9	5607.7	6260.0	5303.7	4648.3	4604.0	4211.3	3650.9
50°	3783.9	3780.7	3999.2	4613.5	5607.7	6627.3	6386.7	5614.1	5566.6	4812.9	4068.8
52.5°	2995.4	3055.6	3204.4	3787.0	5091.6	6592.5	7184.6	6611.5	6478.5	5348.1	4417.1
55°	2330.5	2308.3	2488.8	2890.9	4037.2	5990.9	7444.2	7396.7	7285.9	5823.0	4724.3
57.5°	1431.2	1513.5	1757.4	2115.2	2938.4	4711.6	7070.6	7874.9	7808.4	6266.3	5044.1
60°	744.1	807.4	1070.2	1443.9	2007.5	3020.8	6136.5	7985.7	7998.4	6624.1	5316.4
62.5°	468.6	465.5	585.8	1013.3	1291.9	1697.2	4765.5	7593.1	7713.4	6899.6	5576.1
65°	351.5	354.6	402.1	671.3	877.1	886.6	2827.6	6567.1	6766.6	6972.4	5664.7
67.5°	326.1	329.3	351.5	440.1	658.6	592.1	1244.4	5063.1	5341.7	6301.2	5322.7
70°	291.3	294.5	329.3	364.1	497.1	433.8	560.5	3049.3	3435.6	4572.3	4258.8
72.5°	228.0	234.3	275.5	345.1	370.5	329.3	389.5	1348.9	1573.7	2514.1	2438.1
75°	167.8	171.0	209.0	266.0	326.1	234.3	300.8	535.1	585.8	943.6	804.3
77.5°	117.2	117.2	145.7	199.5	272.3	164.7	215.3	288.1	294.5	351.5	231.1
80°	72.8	76.0	91.8	136.2	167.8	158.3	133.0	193.2	193.2	183.7	95.0
82.5°	41.2	44.3	63.3	91.8	114.0	107.7	85.5	110.8	114.0	117.2	53.8
85°	19.0	22.2	38.0	57.0	66.5	50.7	50.7	57.0	57.0	76.0	31.7
87.5°	3.2	3.2	19.0	25.3	22.2	25.3	25.3	31.7	31.7	38.0	15.8
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°	1000.6	1000.6	1000.6	1000.6	1000.6	1000.6	1000.6	1000.6	1000.6	1000.6	1000.6
2.5°	997.4	997.4	997.4	994.3	994.3	991.1	984.8	984.8	984.8	984.8	987.9
5°	1010.1	1006.9	1003.8	994.3	987.9	975.3	962.6	959.4	949.9	949.9	953.1
7.5°	1025.9	1025.9	1016.4	1000.6	984.8	962.6	940.4	924.6	908.8	905.6	902.4
10°	1054.4	1048.1	1038.6	1010.1	984.8	949.9	915.1	873.9	842.3	826.4	820.1
12.5°	1076.6	1073.4	1054.4	1022.8	981.6	927.8	848.6	753.6	677.6	636.4	636.4
15°	1108.2	1101.9	1073.4	1029.1	972.1	845.4	683.9	538.3	456.0	411.6	405.3
17.5°	1139.9	1127.2	1092.4	1032.3	930.9	696.6	478.1	345.1	288.1	266.0	259.6
20°	1177.9	1155.7	1105.1	1035.4	829.6	506.6	310.3	231.1	209.0	199.5	202.7
22.5°	1228.6	1190.6	1117.7	1016.4	677.6	329.3	218.5	186.8	174.2	164.7	164.7
25°	1291.9	1238.1	1139.9	962.6	490.8	221.6	174.2	155.2	142.5	136.2	133.0
27.5°	1348.9	1282.4	1162.1	867.6	313.5	174.2	145.7	129.8	117.2	114.0	110.8
30°	1424.9	1333.1	1184.2	715.6	205.8	142.5	123.5	107.7	98.2	95.0	95.0
32.5°	1554.7	1431.2	1225.4	544.6	155.2	123.5	104.5	91.8	85.5	82.3	82.3
35°	1706.7	1551.5	1260.2	380.0	133.0	104.5	88.7	79.2	76.0	72.8	72.8
37.5°	1865.0	1694.0	1266.6	240.6	117.2	91.8	79.2	72.8	66.5	66.5	66.5
40°	2150.0	1944.2	1238.1	161.5	101.3	82.3	69.7	66.5	60.2	60.2	60.2
42.5°	2482.5	2248.2	1165.2	129.8	91.8	72.8	66.5	60.2	53.8	53.8	50.7
45°	2913.1	2593.3	1041.7	114.0	82.3	66.5	60.2	53.8	50.7	47.5	47.5
47.5°	3318.4	2985.9	924.6	101.3	76.0	63.3	53.8	47.5	44.3	44.3	44.3
50°	3704.7	3286.7	788.4	95.0	69.7	60.2	50.7	44.3	41.2	38.0	38.0
52.5°	3983.3	3524.2	661.8	85.5	63.3	53.8	47.5	41.2	34.8	31.7	31.7
55°	4293.7	3764.9	547.8	76.0	60.2	50.7	41.2	34.8	28.5	25.3	25.3
57.5°	4642.0	3999.2	443.3	69.7	57.0	44.3	34.8	28.5	22.2	19.0	19.0
60°	4987.1	4186.0	354.6	63.3	50.7	41.2	31.7	22.2	15.8	12.7	12.7
62.5°	5332.2	4312.7	272.3	57.0	47.5	34.8	25.3	15.8	9.5	6.3	6.3
65°	5474.7	4277.8	202.7	50.7	41.2	28.5	22.2	15.8	9.5	6.3	6.3
67.5°	5078.9	3847.2	142.5	50.7	38.0	28.5	19.0	12.7	6.3	3.2	3.2
70°	3964.3	2970.1	104.5	50.7	38.0	28.5	19.0	12.7	6.3	3.2	3.2
72.5°	2248.2	1652.9	79.2	44.3	34.8	25.3	19.0	12.7	6.3	3.2	3.2
75°	801.1	532.0	60.2	41.2	31.7	22.2	19.0	12.7	6.3	3.2	3.2
77.5°	193.2	136.2	47.5	34.8	28.5	22.2	15.8	12.7	9.5	3.2	3.2
80°	79.2	57.0	38.0	28.5	22.2	19.0	15.8	12.7	6.3	3.2	3.2
82.5°	34.8	28.5	15.8	15.8	12.7	12.7	12.7	12.7	6.3	3.2	3.2
85°	15.8	12.7	6.3	6.3	3.2	3.2	3.2	6.3	6.3	3.2	3.2
87.5°	9.5	6.3	6.3	6.3	3.2	3.2	3.2	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)