

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: P573521

Luminaire Tested: **ARCH-S-PA2-80-830-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573521
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-PA2-80-830-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 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: 6997 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

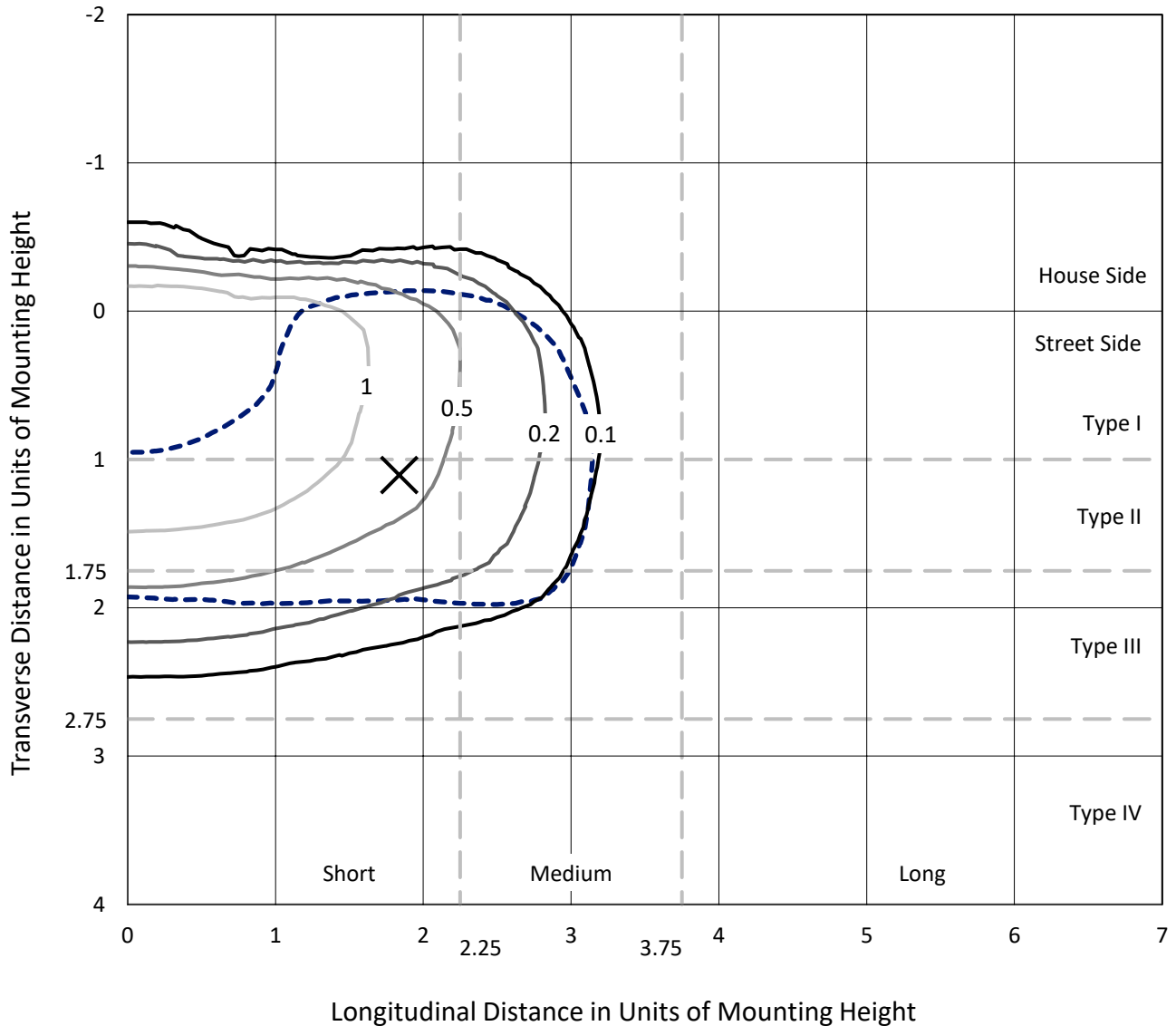
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

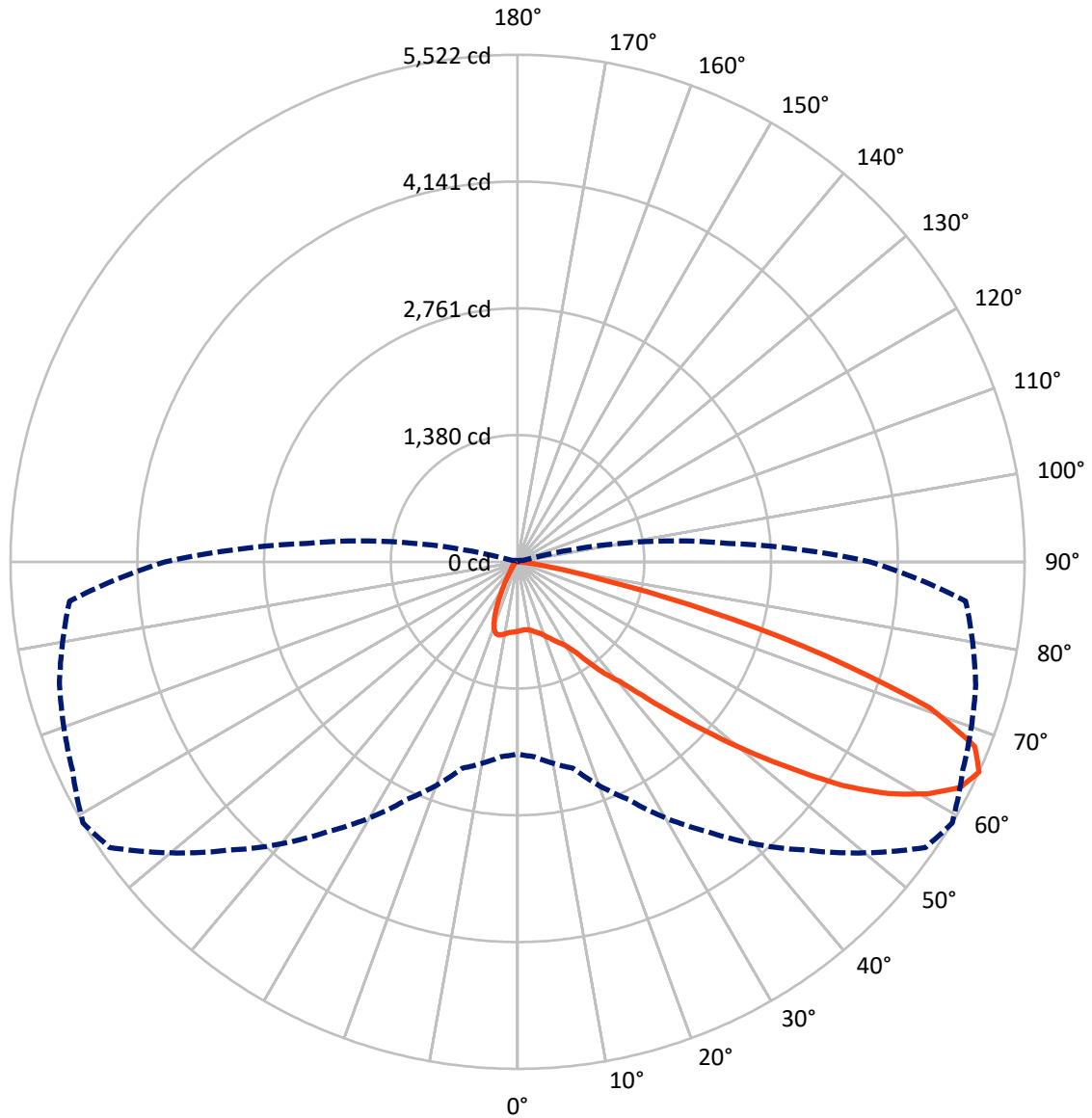
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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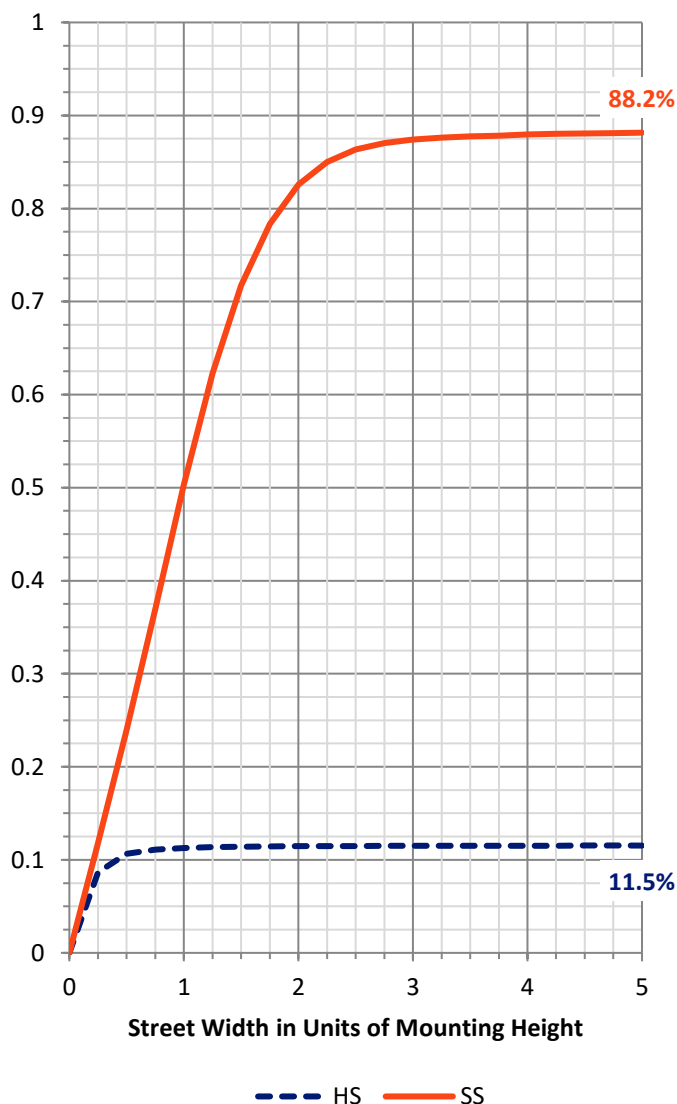
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	816.3	0.0	816.3
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	6180.7	0.0	6180.7
	% Fixture	88.3	0.0	88.3
Total	Lumens	6997.0	0.0	6997.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	1.0
10°-20°	203.0	2.9
20°-30°	344.7	4.9
30°-40°	610.7	8.7
40°-50°	1152.0	16.5
50°-60°	1949.1	27.9
60°-70°	2026.5	29.0
70°-80°	607.7	8.7
80°-90°	31.9	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°	6997.0	100.0
0°-180°	6997.0	100.0

Coefficient of Utilization



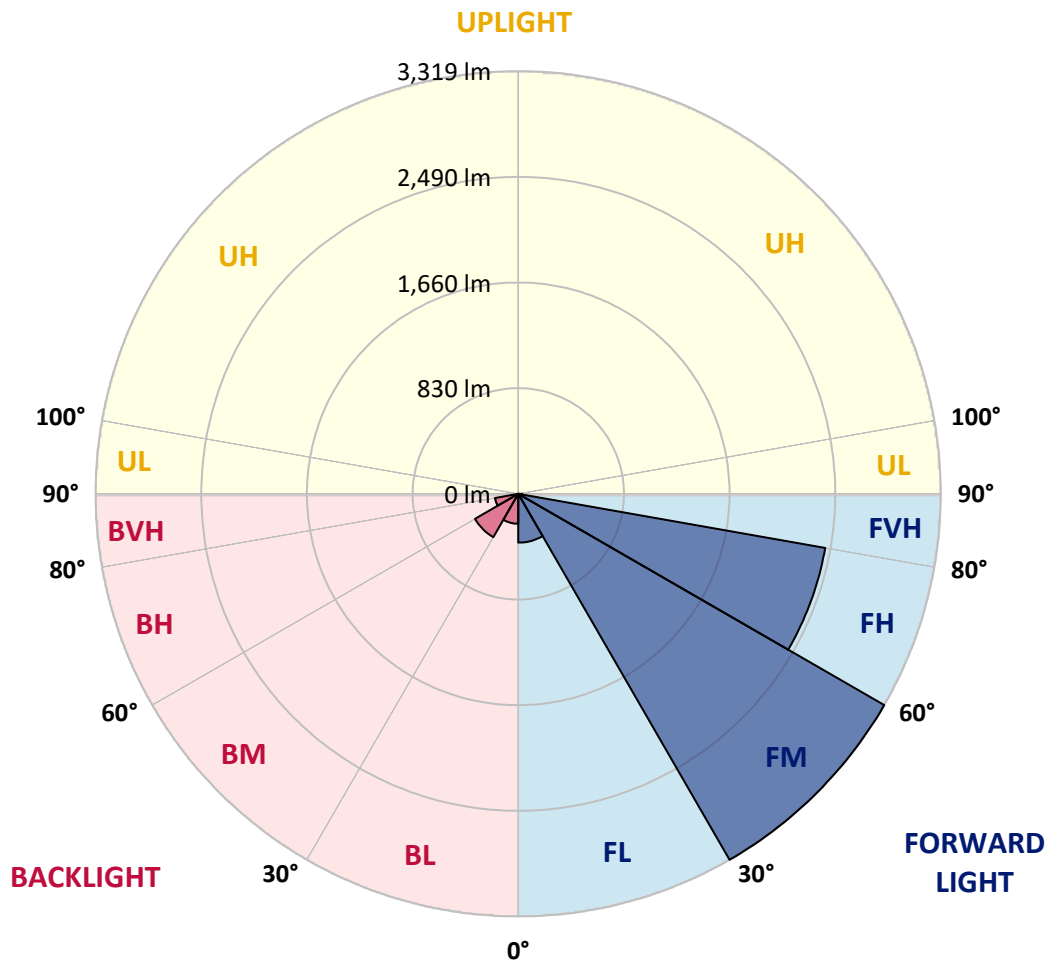
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	383.7	5.5			
FM (30°-60°)	3319.4	47.4			
FH (60°-80°)	2448.4	35.0			G2/5000
FVH (80°-90°)	29.2	0.4			G1/100
BL (0°-30°)	235.5	3.4	B1/500		
BM (30°-60°)	392.4	5.6	B1/1000		
BH (60°-80°)	185.7	2.7	B1/500		G1/500
BVH (80°-90°)	2.7	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°	756.1	756.1	756.1	756.1	756.1	756.1	756.1	756.1	756.1	756.1	756.1
2.5°	735.7	733.2	733.2	738.3	740.8	743.4	748.5	748.5	748.5	753.5	756.1
5°	700.1	700.1	702.6	707.7	717.9	725.5	740.8	743.4	745.9	758.6	763.7
7.5°	677.2	677.2	679.7	689.9	702.6	720.5	740.8	745.9	753.5	771.4	784.1
10°	674.6	672.1	677.2	687.4	702.6	725.5	748.5	756.1	771.4	794.3	812.1
12.5°	682.3	679.7	684.8	695.0	710.3	733.2	763.7	776.5	794.3	824.8	850.3
15°	687.4	684.8	689.9	702.6	720.5	748.5	784.1	799.4	822.3	865.6	891.0
17.5°	702.6	700.1	702.6	712.8	730.6	761.2	807.0	822.3	860.5	908.8	936.8
20°	771.4	768.8	753.5	748.5	751.0	779.0	837.6	863.0	908.8	969.9	990.3
22.5°	913.9	903.8	875.7	829.9	799.4	809.6	875.7	903.8	964.8	1033.6	1048.9
25°	1104.9	1097.2	1056.5	977.6	891.0	865.6	919.0	957.2	1031.0	1107.4	1102.3
27.5°	1321.3	1306.0	1267.8	1158.3	1041.2	957.2	972.5	1005.6	1087.0	1168.5	1143.1
30°	1509.6	1504.6	1461.3	1369.6	1232.2	1107.4	1054.0	1071.8	1145.6	1232.2	1201.6
32.5°	1682.8	1667.5	1631.8	1545.3	1418.0	1290.7	1183.8	1183.8	1244.9	1346.7	1300.9
35°	1873.7	1863.5	1820.2	1733.7	1611.5	1461.3	1364.5	1354.4	1405.3	1519.8	1420.5
37.5°	2069.7	2044.3	2023.9	1934.8	1812.6	1682.8	1565.7	1542.7	1568.2	1652.2	1530.0
40°	2314.1	2314.1	2268.3	2186.8	2072.3	1934.8	1771.9	1713.3	1705.7	1815.1	1720.9
42.5°	2599.2	2591.6	2553.4	2477.0	2367.6	2240.3	2034.1	1980.6	1975.5	2107.9	1995.9
45°	2927.6	2922.6	2876.7	2813.1	2736.7	2596.7	2393.0	2339.6	2309.0	2461.8	2329.4
47.5°	3228.0	3210.2	3194.9	3202.6	3159.3	3001.5	2810.5	2746.9	2744.3	2864.0	2693.4
50°	3434.3	3424.1	3477.5	3528.4	3609.9	3510.6	3284.1	3228.0	3184.8	3342.6	3072.8
52.5°	3569.2	3564.1	3671.0	3816.1	3984.1	3976.5	3775.4	3742.3	3706.6	3749.9	3411.3
55°	3622.6	3622.6	3749.9	4017.2	4312.5	4439.8	4345.6	4299.8	4175.1	4086.0	3783.0
57.5°	3559.0	3551.4	3716.8	4065.6	4516.2	4778.4	4819.2	4765.7	4569.7	4470.4	4195.4
60°	3289.1	3294.2	3490.3	3930.7	4500.9	4915.9	5178.1	5129.7	4933.7	4786.1	4541.7
62.5°	2785.1	2828.4	3034.6	3513.2	4175.1	4806.4	5384.3	5409.8	5198.5	5015.2	4849.7
65°	2092.6	2130.8	2326.8	2856.4	3581.9	4439.8	5422.5	5521.8	5351.2	5165.4	4898.1
67.5°	1272.9	1285.6	1524.9	1924.6	2637.4	3699.0	5155.2	5371.6	5249.4	4943.9	4419.5
70°	593.2	626.3	743.4	1051.4	1670.0	2724.0	4455.1	4760.6	4623.1	4243.8	3360.4
72.5°	231.7	241.8	315.7	486.2	885.9	1713.3	3324.8	3528.4	3434.3	3014.2	2003.5
75°	114.6	122.2	152.7	231.7	404.8	707.7	2031.5	2163.9	2008.6	1514.7	847.7
77.5°	84.0	84.0	101.8	142.6	221.5	262.2	855.4	959.8	906.3	585.5	231.7
80°	56.0	61.1	71.3	96.7	140.0	127.3	323.3	384.4	320.8	180.8	81.5
82.5°	33.1	35.6	53.5	68.7	94.2	73.8	109.5	122.2	132.4	89.1	38.2
85°	17.8	17.8	35.6	50.9	50.9	33.1	38.2	43.3	50.9	53.5	20.4
87.5°	5.1	5.1	22.9	30.5	20.4	17.8	20.4	20.4	22.9	28.0	10.2
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°	756.1	756.1	756.1	756.1	756.1	756.1	756.1	756.1	756.1	756.1	756.1
2.5°	758.6	758.6	761.2	761.2	763.7	763.7	763.7	763.7	766.3	768.8	768.8
5°	766.3	768.8	768.8	768.8	768.8	763.7	761.2	758.6	758.6	761.2	761.2
7.5°	786.6	789.2	786.6	781.6	773.9	763.7	753.5	753.5	751.0	753.5	751.0
10°	817.2	817.2	814.6	801.9	789.2	768.8	748.5	733.2	723.0	720.5	715.4
12.5°	855.4	855.4	847.7	824.8	801.9	763.7	710.3	659.4	618.6	600.8	595.7
15°	893.6	893.6	883.4	850.3	804.5	712.8	600.8	493.9	432.8	407.3	392.0
17.5°	939.4	934.3	916.5	870.7	776.5	611.0	430.2	320.8	272.4	249.5	249.5
20°	987.8	982.7	949.6	873.2	705.2	437.9	280.0	221.5	208.8	203.7	203.7
22.5°	1041.2	1028.5	977.6	852.8	555.0	297.9	211.3	196.0	190.9	188.4	188.4
25°	1084.5	1064.1	997.9	796.8	397.1	208.8	185.8	180.8	170.6	168.0	162.9
27.5°	1117.6	1087.0	1005.6	677.2	262.2	173.1	165.5	155.3	145.1	134.9	134.9
30°	1160.9	1122.7	1010.7	527.0	178.2	150.2	142.6	129.8	117.1	106.9	106.9
32.5°	1247.4	1191.4	1013.2	369.1	147.7	132.4	117.1	101.8	89.1	84.0	81.5
35°	1341.6	1265.3	985.2	239.3	129.8	112.0	94.2	81.5	68.7	66.2	66.2
37.5°	1446.0	1374.7	924.1	162.9	114.6	94.2	76.4	63.6	56.0	53.5	53.5
40°	1621.7	1537.6	822.3	129.8	99.3	78.9	63.6	53.5	48.4	45.8	45.8
42.5°	1873.7	1728.6	695.0	112.0	86.6	66.2	50.9	43.3	40.7	38.2	38.2
45°	2163.9	1942.4	547.3	101.8	76.4	56.0	43.3	38.2	35.6	33.1	33.1
47.5°	2497.4	2163.9	432.8	89.1	66.2	48.4	38.2	33.1	30.5	28.0	28.0
50°	2813.1	2337.0	325.9	78.9	58.6	40.7	33.1	30.5	28.0	25.5	25.5
52.5°	3072.8	2454.1	246.9	68.7	50.9	35.6	30.5	28.0	22.9	22.9	22.9
55°	3385.9	2545.8	188.4	61.1	45.8	33.1	28.0	22.9	20.4	17.8	17.8
57.5°	3658.3	2578.9	137.5	53.5	40.7	30.5	25.5	20.4	15.3	12.7	12.7
60°	3841.6	2550.9	99.3	45.8	35.6	25.5	20.4	15.3	10.2	7.6	7.6
62.5°	3971.4	2489.8	76.4	40.7	30.5	22.9	17.8	12.7	7.6	5.1	5.1
65°	3841.6	2301.4	61.1	35.6	25.5	20.4	12.7	10.2	5.1	2.5	2.5
67.5°	3322.2	1929.7	48.4	30.5	22.9	17.8	12.7	7.6	2.5	0.0	0.0
70°	2387.9	1377.3	40.7	28.0	20.4	15.3	10.2	5.1	2.5	0.0	0.0
72.5°	1331.4	710.3	38.2	25.5	20.4	15.3	10.2	5.1	2.5	0.0	0.0
75°	539.7	244.4	35.6	25.5	20.4	12.7	10.2	5.1	2.5	0.0	0.0
77.5°	157.8	84.0	30.5	22.9	20.4	15.3	10.2	5.1	2.5	0.0	0.0
80°	56.0	38.2	22.9	20.4	15.3	12.7	10.2	7.6	2.5	0.0	0.0
82.5°	25.5	15.3	10.2	7.6	7.6	7.6	7.6	5.1	2.5	0.0	0.0
85°	10.2	7.6	5.1	2.5	2.5	2.5	2.5	2.5	2.5	0.0	0.0
87.5°	7.6	5.1	2.5	2.5	2.5	2.5	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)