

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: P573519

Luminaire Tested: **ARCH-S-PA2-80-830-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573519
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-PA2-80-830-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 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: 6460 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

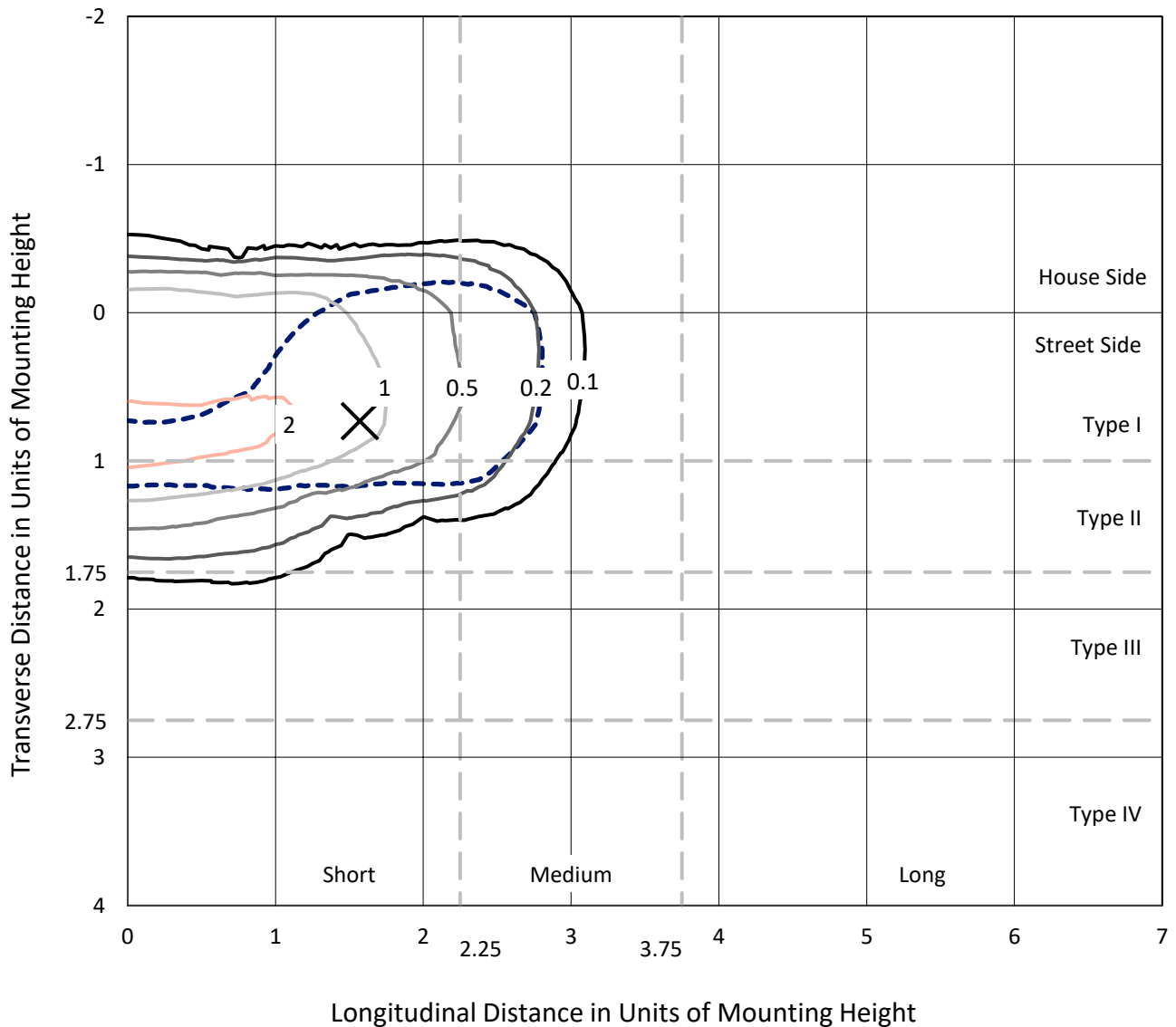
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

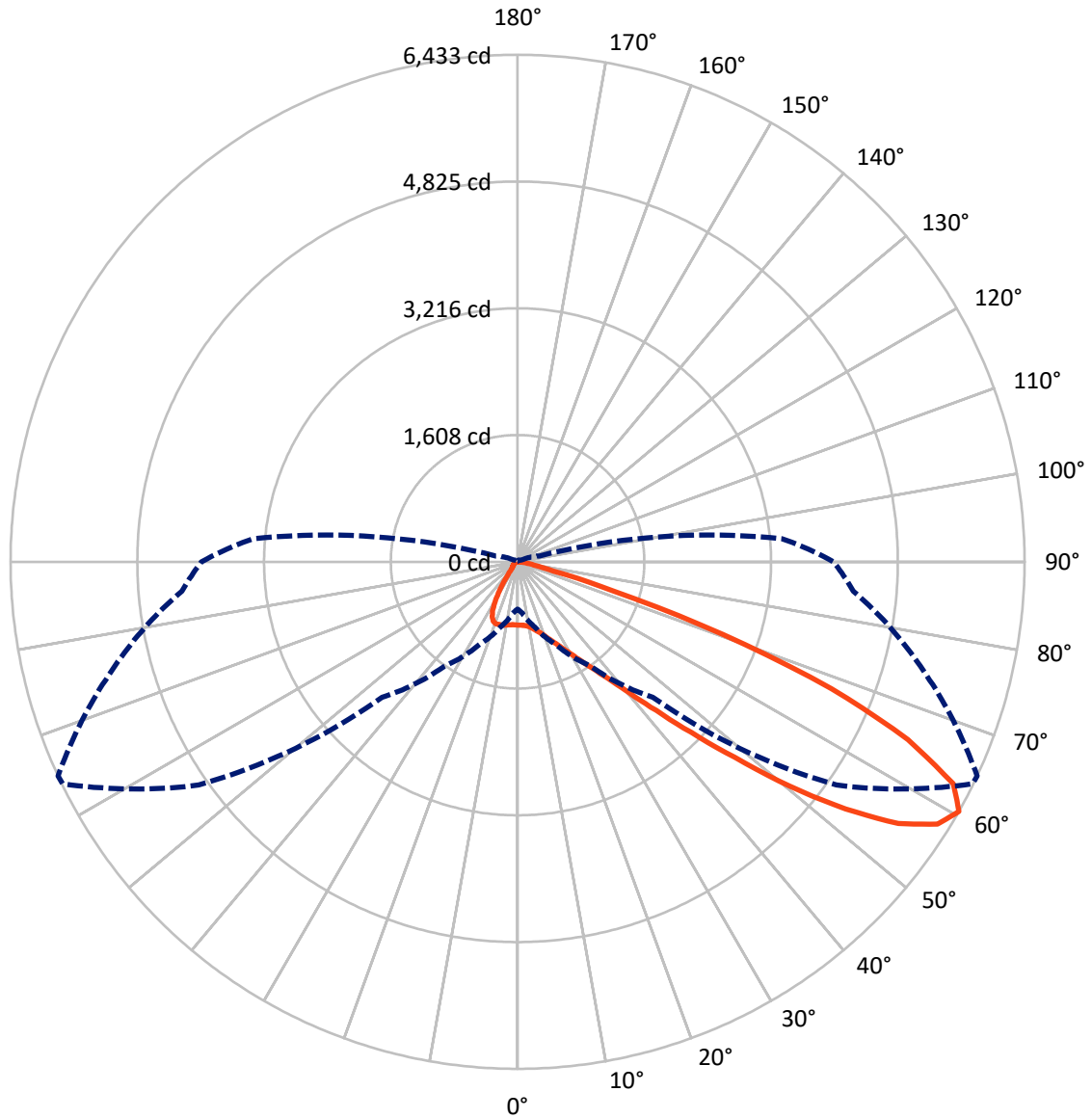
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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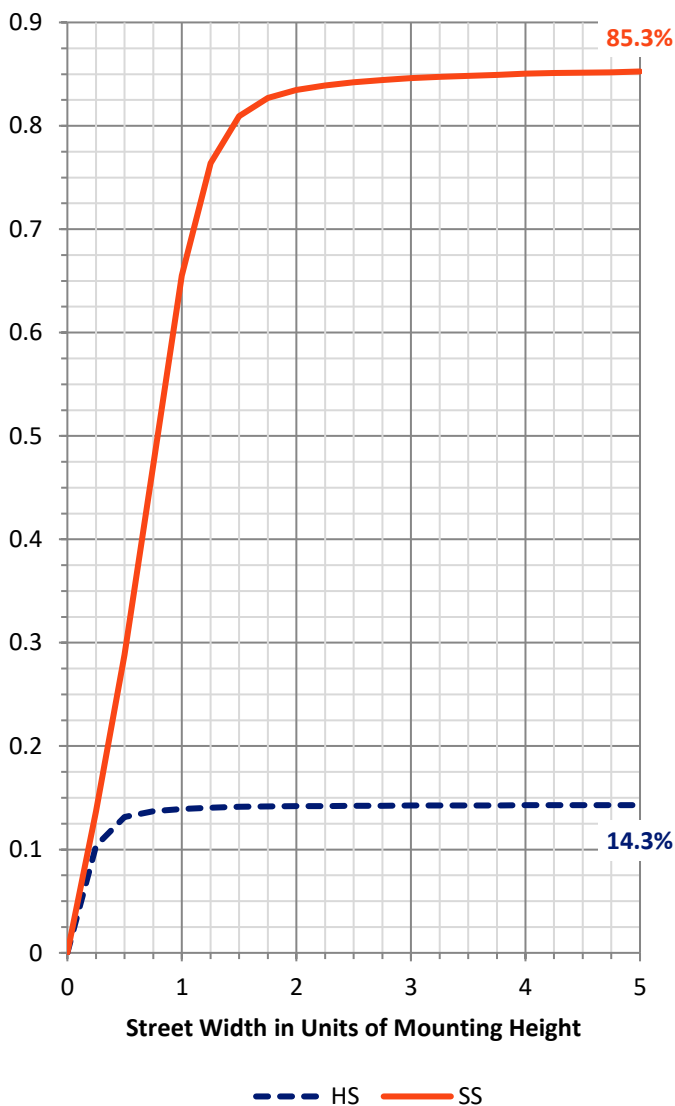
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	935.2	0.0	935.2
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	5524.8	0.0	5524.8
	% Fixture	85.5	0.0	85.5
Total	Lumens	6460.0	0.0	6460.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	1.2
10°-20°	215.8	3.3
20°-30°	366.6	5.7
30°-40°	756.3	11.7
40°-50°	1521.1	23.5
50°-60°	1861.4	28.8
60°-70°	1316.8	20.4
70°-80°	317.3	4.9
80°-90°	28.7	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°	6460.0	100.0
0°-180°	6460.0	100.0

Coefficient of Utilization

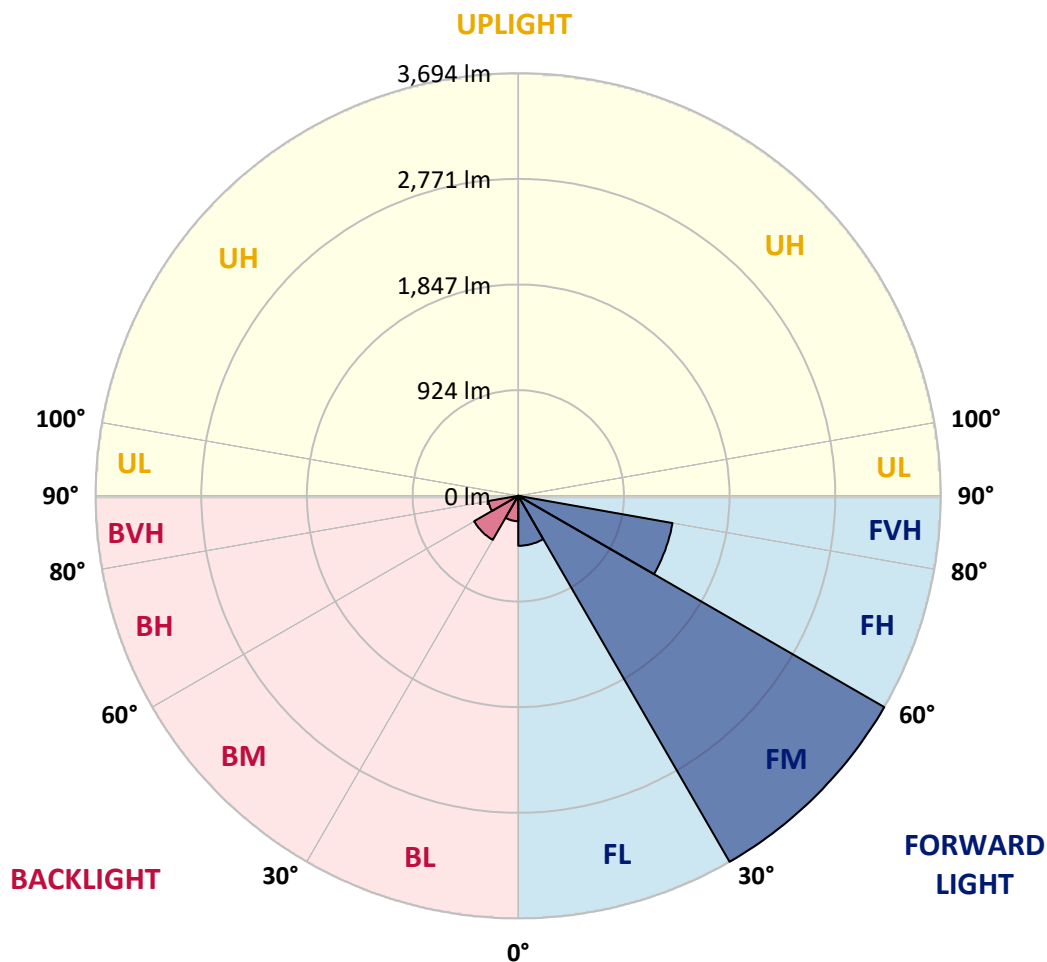


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	436.7	6.8			
FM (30°-60°)	3694.1	57.2			
FH (60°-80°)	1369.0	21.2			G1/1800
FVH (80°-90°)	24.9	0.4			G1/100
BL (0°-30°)	221.7	3.4	B1/500		
BM (30°-60°)	444.7	6.9	B1/1000		
BH (60°-80°)	265.1	4.1	B1/500		G1/500
BVH (80°-90°)	3.7	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°	804.8	804.8	804.8	804.8	804.8	804.8	804.8	804.8	804.8	804.8	804.8
2.5°	807.3	804.8	804.8	804.8	807.3	807.3	809.8	804.8	804.8	804.8	804.8
5°	802.2	799.7	799.7	802.2	804.8	804.8	809.8	809.8	809.8	812.4	812.4
7.5°	812.4	807.3	807.3	809.8	812.4	812.4	817.5	820.0	820.0	825.1	827.7
10°	825.1	822.6	822.6	827.7	832.8	832.8	840.4	840.4	840.4	845.5	848.0
12.5°	843.0	840.4	840.4	848.0	855.7	860.8	865.9	868.4	871.0	871.0	871.0
15°	868.4	865.9	865.9	873.5	883.7	896.4	904.1	904.1	909.2	906.6	896.4
17.5°	904.1	901.5	904.1	909.2	921.9	934.6	949.9	952.5	949.9	944.8	929.5
20°	962.6	955.0	960.1	972.8	972.8	980.5	1000.8	1008.5	1011.0	995.8	967.7
22.5°	1023.8	1023.8	1028.9	1044.1	1034.0	1044.1	1062.0	1074.7	1079.8	1067.1	1021.2
25°	1138.4	1143.5	1135.8	1130.7	1105.3	1110.4	1133.3	1158.7	1158.7	1148.6	1082.3
27.5°	1390.5	1385.4	1331.9	1258.1	1191.9	1196.9	1219.9	1253.0	1255.5	1232.6	1143.5
30°	1752.1	1757.2	1652.8	1484.7	1339.6	1301.4	1326.8	1365.0	1370.1	1331.9	1222.4
32.5°	2317.5	2274.2	2080.6	1856.5	1584.0	1446.5	1456.7	1497.5	1512.7	1479.6	1347.2
35°	3048.4	2946.5	2656.2	2378.6	1983.9	1706.3	1627.3	1670.6	1678.3	1660.4	1502.5
37.5°	3483.9	3402.4	3213.9	2961.8	2498.3	2052.6	1851.4	1894.7	1887.1	1851.4	1657.9
40°	3753.8	3708.0	3606.1	3489.0	3193.6	2597.6	2220.7	2185.1	2187.6	2136.7	1910.0
42.5°	3906.6	3865.9	3827.7	3858.2	3771.7	3585.7	2755.5	2592.5	2577.3	2480.5	2202.9
45°	3914.3	3853.1	3899.0	4077.3	4214.8	4461.8	3453.3	3076.4	3084.0	2923.6	2567.1
47.5°	3621.4	3573.0	3705.4	4054.3	4510.2	5034.8	4265.7	3738.5	3702.9	3387.1	2936.3
50°	3043.3	3040.7	3216.5	3710.5	4510.2	5330.2	5136.7	4515.3	4477.1	3871.0	3272.5
52.5°	2409.2	2457.6	2577.3	3045.8	4095.1	5302.2	5778.4	5317.5	5210.5	4301.4	3552.6
55°	1874.4	1856.5	2001.7	2325.1	3247.0	4818.3	5987.3	5949.1	5859.9	4683.4	3799.7
57.5°	1151.1	1217.3	1413.4	1701.2	2363.3	3789.5	5686.8	6333.6	6280.1	5039.9	4056.9
60°	598.5	649.4	860.8	1161.3	1614.6	2429.5	4935.5	6422.8	6432.9	5327.7	4275.9
62.5°	376.9	374.4	471.1	814.9	1039.1	1365.0	3832.8	6107.0	6203.7	5549.2	4484.7
65°	282.7	285.2	323.4	539.9	705.4	713.1	2274.2	5281.8	5442.3	5607.8	4556.0
67.5°	262.3	264.9	282.7	354.0	529.7	476.2	1000.8	4072.2	4296.3	5067.9	4281.0
70°	234.3	236.8	264.9	292.9	399.8	348.9	450.8	2452.5	2763.2	3677.4	3425.3
72.5°	183.4	188.5	221.6	277.6	298.0	264.9	313.2	1084.9	1265.7	2022.1	1961.0
75°	135.0	137.5	168.1	213.9	262.3	188.5	241.9	430.4	471.1	758.9	646.9
77.5°	94.2	94.2	117.1	160.4	219.0	132.4	173.2	231.7	236.8	282.7	185.9
80°	58.6	61.1	73.9	109.5	135.0	127.3	107.0	155.3	155.3	147.7	76.4
82.5°	33.1	35.7	50.9	73.9	91.7	86.6	68.8	89.1	91.7	94.2	43.3
85°	15.3	17.8	30.6	45.8	53.5	40.7	40.7	45.8	45.8	61.1	25.5
87.5°	2.5	2.5	15.3	20.4	17.8	20.4	20.4	25.5	25.5	30.6	12.7
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°	804.8	804.8	804.8	804.8	804.8	804.8	804.8	804.8	804.8	804.8	804.8
2.5°	802.2	802.2	802.2	799.7	799.7	797.1	792.0	792.0	792.0	792.0	794.6
5°	812.4	809.8	807.3	799.7	794.6	784.4	774.2	771.6	764.0	764.0	766.6
7.5°	825.1	825.1	817.5	804.8	792.0	774.2	756.4	743.6	730.9	728.4	725.8
10°	848.0	843.0	835.3	812.4	792.0	764.0	736.0	702.9	677.4	664.7	659.6
12.5°	865.9	863.3	848.0	822.6	789.5	746.2	682.5	606.1	545.0	511.9	511.9
15°	891.3	886.2	863.3	827.7	781.8	680.0	550.1	432.9	366.7	331.1	326.0
17.5°	916.8	906.6	878.6	830.2	748.7	560.3	384.6	277.6	231.7	213.9	208.8
20°	947.4	929.5	888.8	832.8	667.2	407.5	249.6	185.9	168.1	160.4	163.0
22.5°	988.1	957.6	899.0	817.5	545.0	264.9	175.7	150.3	140.1	132.4	132.4
25°	1039.1	995.8	916.8	774.2	394.7	178.3	140.1	124.8	114.6	109.5	107.0
27.5°	1084.9	1031.4	934.6	697.8	252.1	140.1	117.1	104.4	94.2	91.7	89.1
30°	1146.0	1072.2	952.5	575.6	165.5	114.6	99.3	86.6	78.9	76.4	76.4
32.5°	1250.4	1151.1	985.6	438.0	124.8	99.3	84.0	73.9	68.8	66.2	66.2
35°	1372.7	1247.9	1013.6	305.6	107.0	84.0	71.3	63.7	61.1	58.6	58.6
37.5°	1500.0	1362.5	1018.7	193.5	94.2	73.9	63.7	58.6	53.5	53.5	53.5
40°	1729.2	1563.7	995.8	129.9	81.5	66.2	56.0	53.5	48.4	48.4	48.4
42.5°	1996.6	1808.2	937.2	104.4	73.9	58.6	53.5	48.4	43.3	43.3	40.7
45°	2343.0	2085.7	837.9	91.7	66.2	53.5	48.4	43.3	40.7	38.2	38.2
47.5°	2668.9	2401.5	743.6	81.5	61.1	50.9	43.3	38.2	35.7	35.7	35.7
50°	2979.6	2643.5	634.1	76.4	56.0	48.4	40.7	35.7	33.1	30.6	30.6
52.5°	3203.7	2834.5	532.3	68.8	50.9	43.3	38.2	33.1	28.0	25.5	25.5
55°	3453.3	3028.0	440.6	61.1	48.4	40.7	33.1	28.0	22.9	20.4	20.4
57.5°	3733.5	3216.5	356.5	56.0	45.8	35.7	28.0	22.9	17.8	15.3	15.3
60°	4011.0	3366.7	285.2	50.9	40.7	33.1	25.5	17.8	12.7	10.2	10.2
62.5°	4288.6	3468.6	219.0	45.8	38.2	28.0	20.4	12.7	7.6	5.1	5.1
65°	4403.2	3440.6	163.0	40.7	33.1	22.9	17.8	12.7	7.6	5.1	5.1
67.5°	4084.9	3094.2	114.6	40.7	30.6	22.9	15.3	10.2	5.1	2.5	2.5
70°	3188.5	2388.8	84.0	40.7	30.6	22.9	15.3	10.2	5.1	2.5	2.5
72.5°	1808.2	1329.4	63.7	35.7	28.0	20.4	15.3	10.2	5.1	2.5	2.5
75°	644.3	427.8	48.4	33.1	25.5	17.8	15.3	10.2	5.1	2.5	2.5
77.5°	155.3	109.5	38.2	28.0	22.9	17.8	12.7	10.2	7.6	2.5	2.5
80°	63.7	45.8	30.6	22.9	17.8	15.3	12.7	10.2	5.1	2.5	2.5
82.5°	28.0	22.9	12.7	12.7	10.2	10.2	10.2	10.2	5.1	2.5	2.5
85°	12.7	10.2	5.1	5.1	2.5	2.5	2.5	5.1	5.1	2.5	2.5
87.5°	7.6	5.1	5.1	5.1	2.5	2.5	2.5	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)