

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: P522909

Luminaire Tested: **GLAN-SA9A-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522909
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9A-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32968 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

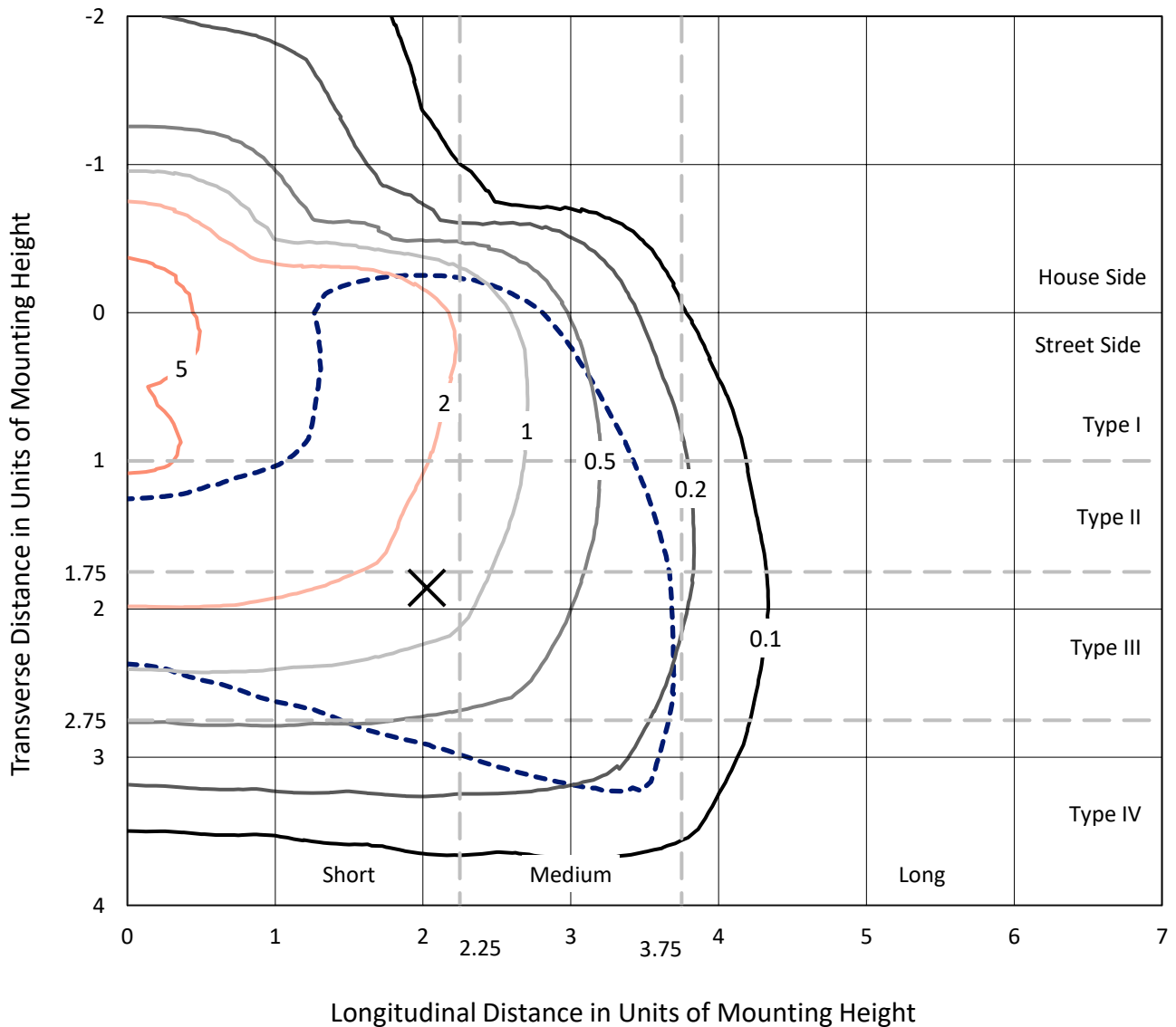
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

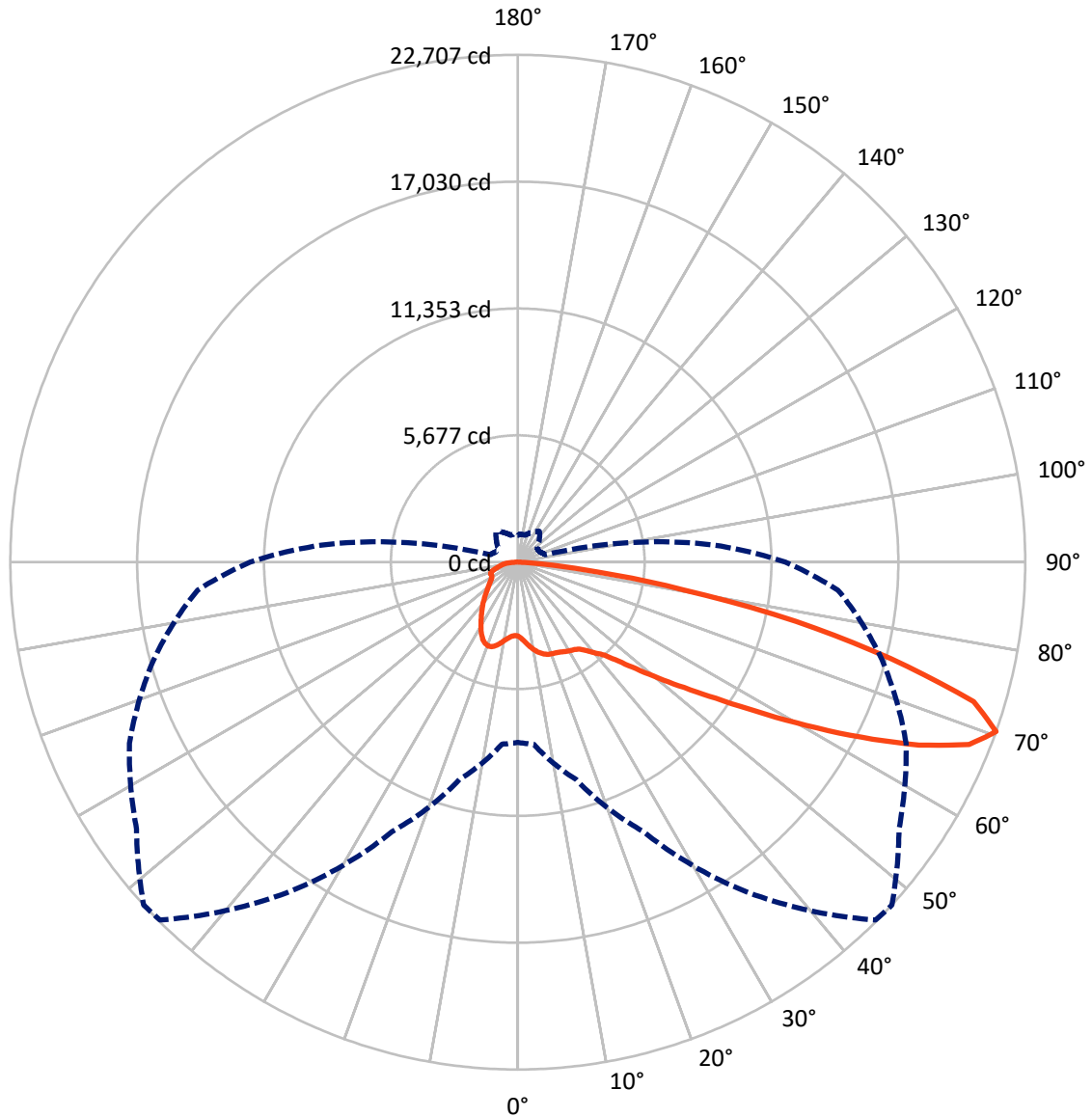
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7464.6	0.0	7464.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	25503.4	0.0	25503.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	32968.0	0.0	32968.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.1	1.0
10°-20°	1140.5	3.5
20°-30°	1896.6	5.8
30°-40°	2688.2	8.2
40°-50°	3968.3	12.0
50°-60°	6873.3	20.8
60°-70°	9708.8	29.4
70°-80°	5581.1	16.9
80°-90°	770.1	2.3
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°	32968.0	100.0
0°-180°	32968.0	100.0

Coefficient of Utilization



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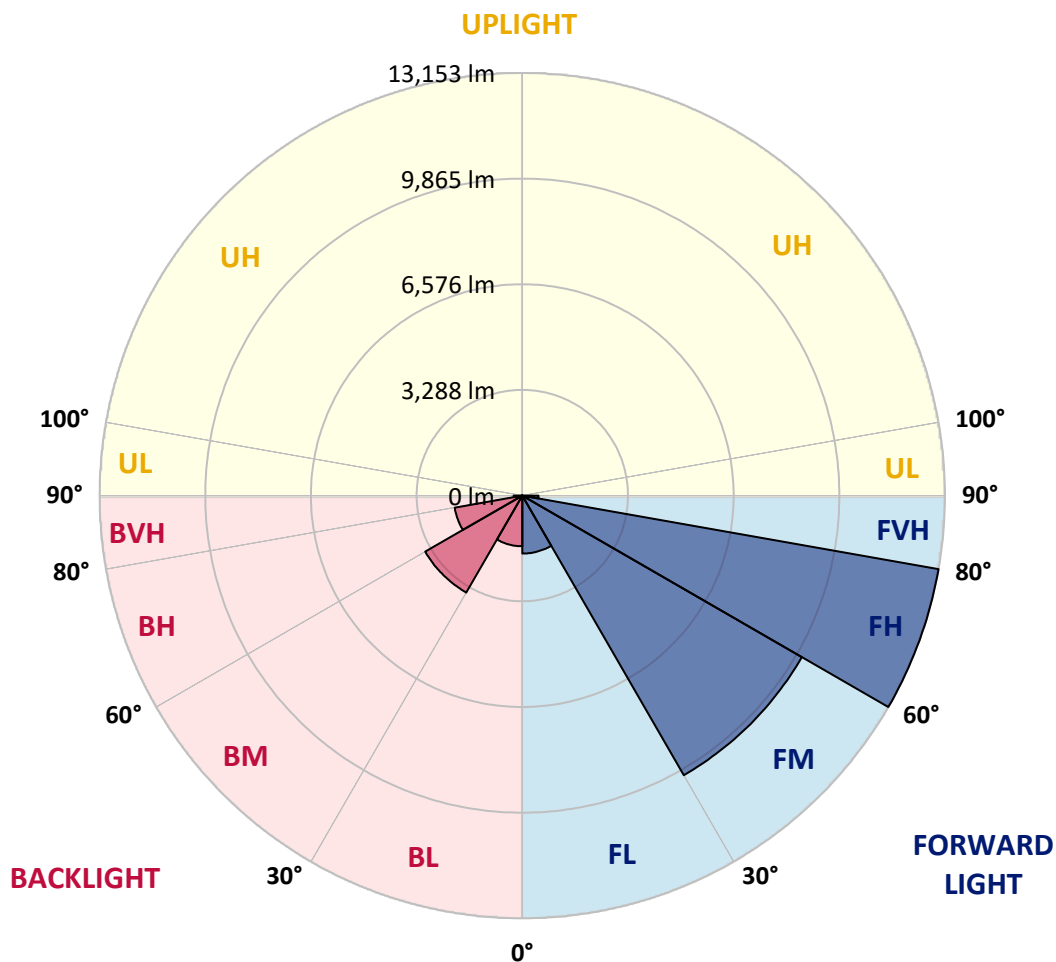
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1802.8	5.5			
FM	(30°-60°)	10044.7	30.5			
FH	(60°-80°)	13152.9	39.9			G5
FVH	(80°-90°)	503.0	1.5			G4/750
BL	(0°-30°)	1575.4	4.8	B3/2500		
BM	(30°-60°)	3485.1	10.6	B3/5000		
BH	(60°-80°)	2137.0	6.5	B3/2500		G3/2500
BVH	(80°-90°)	267.0	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	3309.6	3309.6	3309.6	3309.6	3309.6	3309.6	3309.6	3309.6	3309.6	3309.6	3309.6
2.5°	3523.1	3510.7	3508.9	3482.5	3468.4	3441.9	3431.3	3406.6	3376.6	3346.6	3318.4
5°	3800.0	3800.0	3787.7	3750.6	3692.4	3632.4	3606.0	3558.3	3473.7	3404.9	3346.6
7.5°	4084.1	4087.6	4062.9	4008.2	3925.3	3828.3	3803.6	3733.0	3613.0	3512.5	3426.0
10°	4329.3	4329.3	4295.8	4221.7	4117.6	4011.7	3987.0	3907.6	3773.6	3648.3	3535.4
12.5°	4516.3	4516.3	4472.2	4375.2	4262.2	4167.0	4138.8	4062.9	3937.6	3798.3	3655.4
15°	4638.0	4629.2	4579.8	4470.4	4361.0	4278.1	4258.7	4195.2	4080.5	3939.4	3778.9
17.5°	4643.3	4639.8	4592.1	4500.4	4405.1	4348.7	4336.3	4294.0	4204.0	4069.9	3900.6
20°	4541.0	4548.0	4516.3	4451.0	4405.1	4380.4	4375.2	4361.0	4297.5	4172.3	4002.9
22.5°	4431.6	4444.0	4414.0	4378.7	4375.2	4399.9	4403.4	4406.9	4366.3	4244.6	4089.4
25°	4405.1	4414.0	4384.0	4352.2	4371.6	4436.9	4451.0	4465.1	4433.4	4331.0	4191.7
27.5°	4539.2	4532.2	4473.9	4405.1	4417.5	4505.7	4525.1	4541.0	4525.1	4436.9	4318.7
30°	4918.5	4895.6	4779.1	4578.0	4514.5	4576.3	4595.7	4639.8	4639.8	4574.5	4456.3
32.5°	5553.6	5509.5	5296.1	4900.9	4680.4	4643.3	4662.7	4735.0	4772.1	4720.9	4592.1
35°	6324.6	6278.7	5973.5	5442.5	4983.8	4777.4	4772.1	4853.2	4952.0	4837.4	4669.8
37.5°	7099.0	7051.4	6684.5	6088.2	5426.6	5059.7	5027.9	5056.1	5098.5	4888.5	4777.4
40°	7873.5	7817.1	7496.0	6809.7	5968.2	5433.7	5350.7	5223.7	5206.1	5056.1	4985.6
42.5°	8640.9	8589.8	8427.5	7619.5	6617.4	5798.8	5671.8	5453.1	5520.1	5430.1	5368.4
45°	9415.4	9418.9	9246.0	8528.0	7400.7	6472.8	6301.6	5959.4	6118.2	6084.6	6119.9
47.5°	10101.7	10092.8	10031.1	9410.1	8372.8	7340.7	7120.2	6723.3	6995.0	7118.4	7388.4
50°	10766.8	10761.5	10765.0	10410.4	9501.8	8372.8	8129.3	7713.0	8325.1	8753.8	9237.2
52.5°	11719.4	11749.4	11535.9	11442.4	10874.4	9591.8	9323.7	8893.2	9897.0	10572.7	11516.5
55°	12675.6	12650.9	12483.3	12580.3	12310.4	11034.9	10754.4	10412.2	11647.1	12386.3	13804.7
57.5°	13238.4	13247.2	13418.3	13892.9	14083.4	12834.4	12580.3	12315.7	13614.1	14138.1	15840.5
60°	13744.7	13785.3	14277.5	15173.7	15690.6	15044.9	14819.1	14561.5	15418.9	15627.1	17608.2
62.5°	13903.5	14028.7	14887.9	16228.6	17257.2	17539.4	17258.9	16690.9	17137.2	17056.0	18806.1
65°	13111.3	13282.5	14822.6	16623.8	18656.1	19906.9	19728.8	18673.8	18601.5	18112.8	19001.9
67.5°	11026.1	11197.2	13174.9	15794.7	19234.8	21956.9	21778.7	20120.4	19490.6	18211.6	17520.0
70°	8067.6	8175.2	10066.4	13298.3	18072.2	22644.9	22706.7	20826.1	19173.0	16869.0	14385.1
72.5°	4648.6	4886.8	6211.7	9355.4	14764.4	20905.5	21334.2	19358.3	17165.4	14072.8	10057.6
75°	1998.8	2004.1	2872.1	5160.2	9999.3	16803.8	17218.3	16046.9	13480.1	9731.2	5370.1
77.5°	950.9	968.5	1263.1	2304.0	5504.2	11610.0	12728.5	11336.6	8621.5	4675.1	2028.8
80°	617.5	629.8	772.7	1143.2	2699.2	6732.1	7511.9	6539.8	3803.6	1670.7	875.0
82.5°	374.0	377.5	516.9	698.6	1485.4	3048.5	3593.6	2838.6	1623.0	1000.3	515.1
85°	227.6	229.3	314.0	432.2	901.5	1053.2	1081.4	1072.6	952.7	654.5	275.2
87.5°	109.4	112.9	162.3	204.6	354.6	326.4	308.7	358.1	449.9	352.8	118.2
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°	3309.6	3309.6	3309.6	3309.6	3309.6	3309.6	3309.6	3309.6	3309.6	3309.6	3309.6
2.5°	3306.1	3300.8	3288.4	3283.1	3279.6	3281.4	3279.6	3279.6	3281.4	3281.4	3281.4
5°	3321.9	3313.1	3293.7	3293.7	3304.3	3329.0	3351.9	3369.6	3389.0	3387.2	3387.2
7.5°	3390.7	3374.9	3351.9	3359.0	3385.4	3424.3	3464.8	3503.6	3542.5	3546.0	3544.2
10°	3491.3	3475.4	3450.7	3459.5	3501.9	3560.1	3611.3	3667.7	3710.1	3722.4	3718.9
12.5°	3606.0	3574.2	3553.0	3577.7	3644.8	3722.4	3771.8	3814.1	3844.1	3861.8	3854.7
15°	3722.4	3692.4	3667.7	3718.9	3800.0	3872.4	3897.1	3904.1	3909.4	3927.1	3923.5
17.5°	3835.3	3794.7	3785.9	3853.0	3930.6	3962.3	3948.2	3918.2	3895.3	3909.4	3907.6
20°	3935.9	3904.1	3900.6	3967.6	3997.6	3967.6	3907.6	3854.7	3814.1	3817.7	3815.9
22.5°	4031.1	4006.4	4010.0	4038.2	3990.6	3888.2	3789.4	3717.1	3673.0	3681.8	3687.1
25°	4137.0	4112.3	4121.1	4075.2	3918.2	3740.0	3597.2	3535.4	3517.8	3535.4	3547.8
27.5°	4274.6	4258.7	4253.4	4077.0	3789.4	3521.3	3359.0	3336.1	3351.9	3390.7	3410.1
30°	4422.8	4422.8	4394.6	4047.0	3613.0	3258.4	3117.3	3120.8	3175.5	3230.2	3249.6
32.5°	4565.7	4595.7	4507.5	3965.9	3385.4	3002.6	2895.0	2898.5	2946.2	3013.2	3030.9
35°	4683.9	4770.3	4604.5	3817.7	3117.3	2787.4	2706.2	2658.6	2660.4	2711.5	2725.6
37.5°	4846.2	5006.7	4660.9	3597.2	2831.5	2603.9	2512.2	2429.3	2374.6	2353.4	2353.4
40°	5128.5	5364.9	4675.1	3270.8	2561.6	2429.3	2298.7	2199.9	2094.1	1998.8	1981.2
42.5°	5606.5	5904.7	4646.8	2895.0	2318.1	2237.0	2110.0	1988.2	1841.8	1707.7	1697.1
45°	6453.3	6606.8	4571.0	2505.1	2101.1	2051.7	1928.2	1795.9	1640.7	1520.7	1511.9
47.5°	7810.0	7593.0	4470.4	2159.3	1903.5	1889.4	1794.2	1640.7	1485.4	1402.5	1393.7
50°	9791.2	9145.5	4456.3	1908.8	1744.8	1751.8	1674.2	1533.1	1397.2	1328.4	1317.8
52.5°	12176.3	11020.8	4549.8	1732.4	1605.4	1631.9	1593.0	1462.5	1342.5	1284.3	1273.7
55°	14490.9	12707.3	4606.3	1594.8	1474.8	1524.2	1529.5	1420.2	1310.8	1252.6	1245.5
57.5°	16369.8	13977.6	4355.7	1469.6	1361.9	1437.8	1476.6	1395.5	1294.9	1250.8	1243.7
60°	17677.0	14577.4	3643.0	1358.4	1279.0	1369.0	1457.2	1397.2	1333.7	1339.0	1342.5
62.5°	18093.4	14311.0	2732.7	1275.5	1222.6	1346.1	1489.0	1469.6	1404.3	1444.9	1451.9
65°	17403.6	13210.1	1981.2	1210.2	1173.2	1361.9	1584.2	1522.5	1379.6	1409.6	1409.6
67.5°	15094.3	11380.7	1541.9	1150.2	1116.7	1391.9	1679.5	1517.2	1321.4	1356.6	1324.9
70°	11973.4	8803.2	1284.3	1083.2	1056.7	1347.8	1688.3	1462.5	1252.6	1259.6	1199.6
72.5°	7945.8	5788.3	1104.4	1019.7	965.0	1212.0	1616.0	1391.9	1185.5	1144.9	1085.0
75°	3893.5	2886.2	963.2	940.3	845.0	1055.0	1517.2	1324.9	1113.2	1049.7	1016.2
77.5°	1508.4	1227.9	822.1	839.7	735.7	929.7	1386.6	1229.6	1017.9	931.5	905.0
80°	732.1	696.8	673.9	700.4	605.1	792.1	1266.7	1146.7	929.7	834.5	795.6
82.5°	455.2	430.5	516.9	545.1	465.7	723.3	1201.4	1076.1	818.6	691.6	659.8
85°	231.1	247.0	345.8	372.2	333.4	575.1	989.7	808.0	591.0	490.4	494.0
87.5°	88.2	118.2	181.7	195.8	178.2	303.4	545.1	471.0	379.3	257.6	238.2
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)