

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: P319154

Luminaire Tested: **GAN-SA0A-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 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: 33672 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 323
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

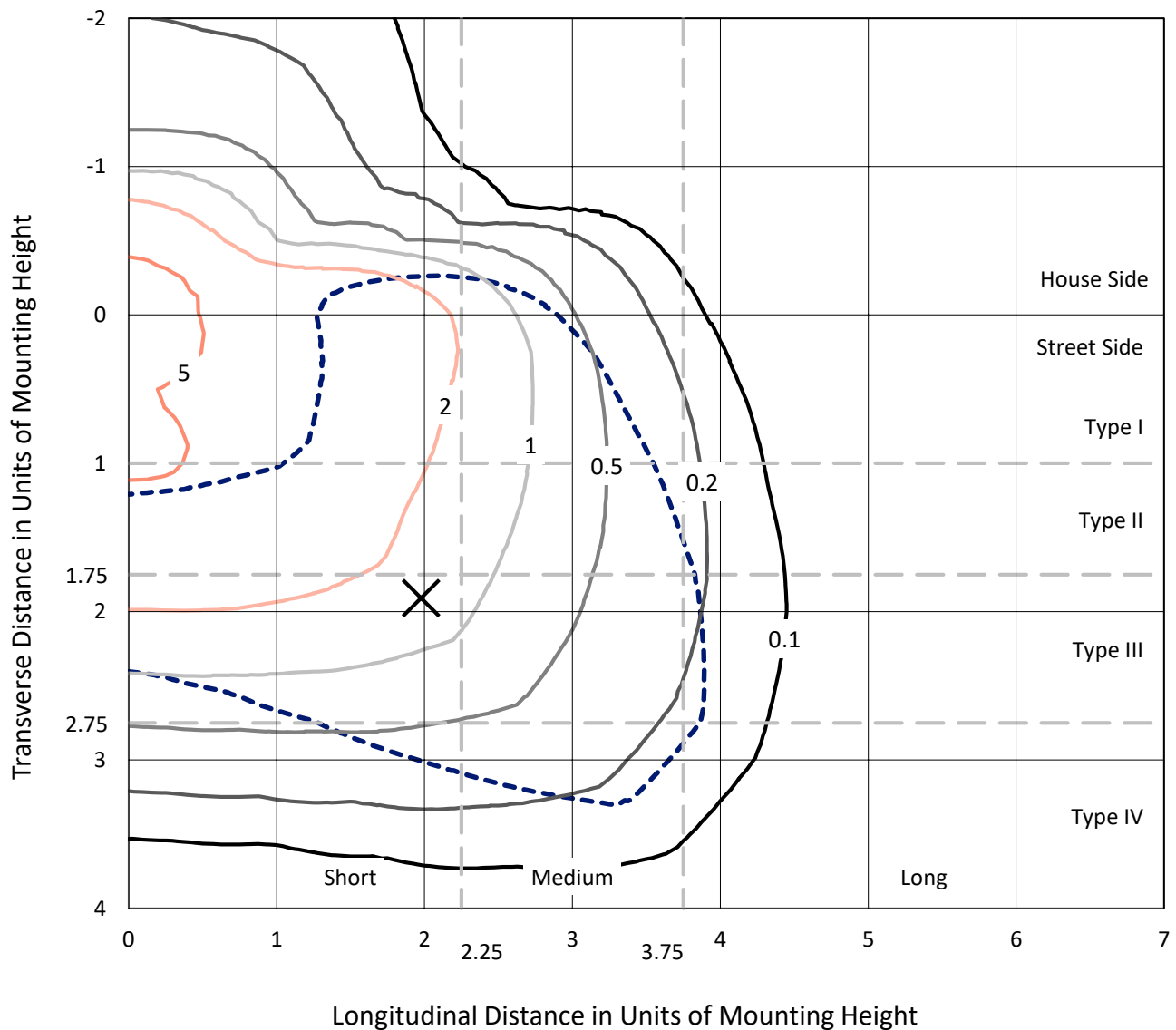


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Iso-Footcandle Lines of Horizontal Illumination

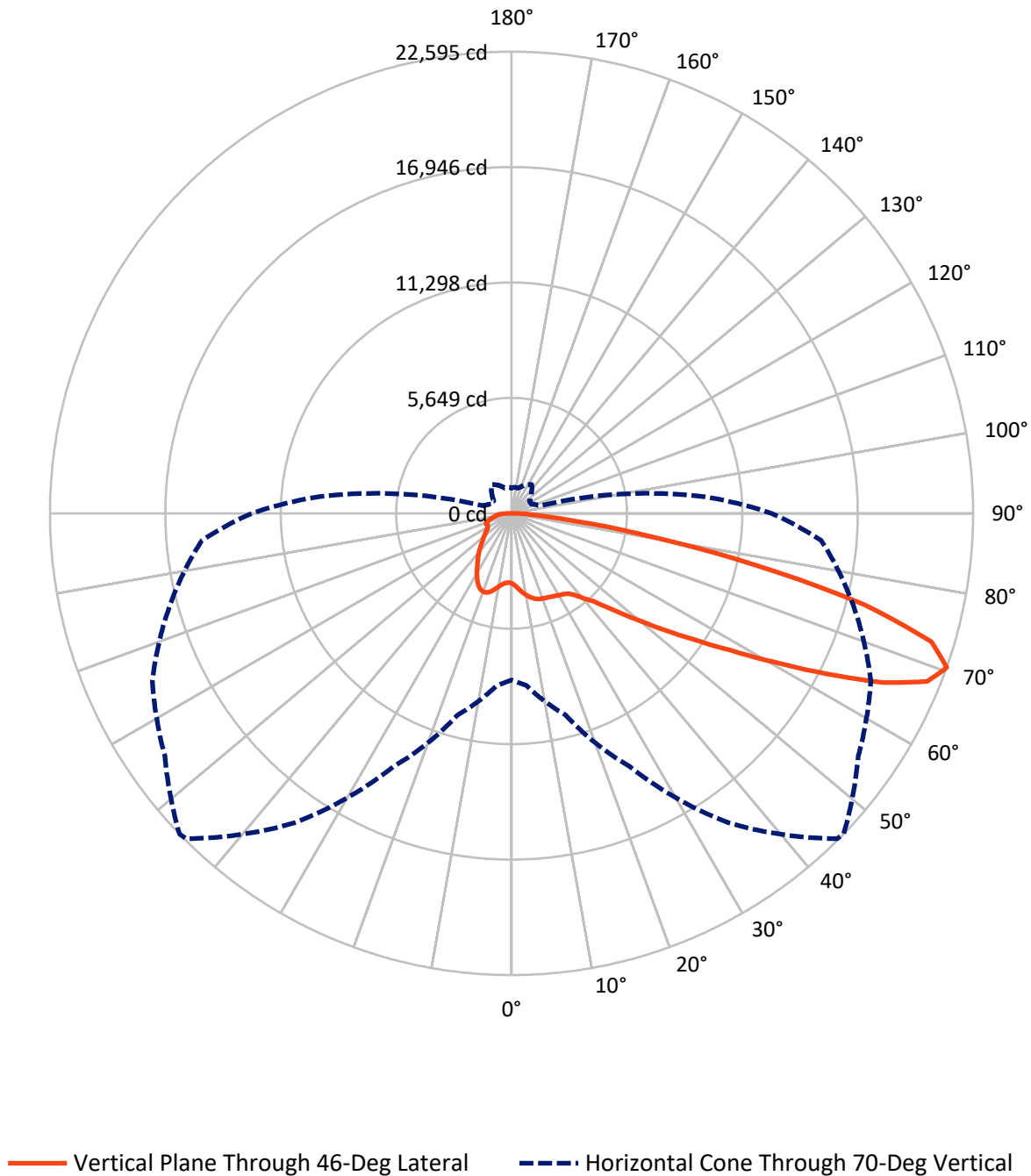
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7717.5	0.0	7717.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	25954.5	0.0	25954.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	33672.0	0.0	33672.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.7	1.0
10°-20°	1165.2	3.5
20°-30°	1942.7	5.8
30°-40°	2756.9	8.2
40°-50°	4055.2	12.0
50°-60°	6867.5	20.4
60°-70°	9748.3	29.0
70°-80°	5922.2	17.6
80°-90°	864.3	2.6
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°	33672.0	100.0
0°-180°	33672.0	100.0

Coefficient of Utilization



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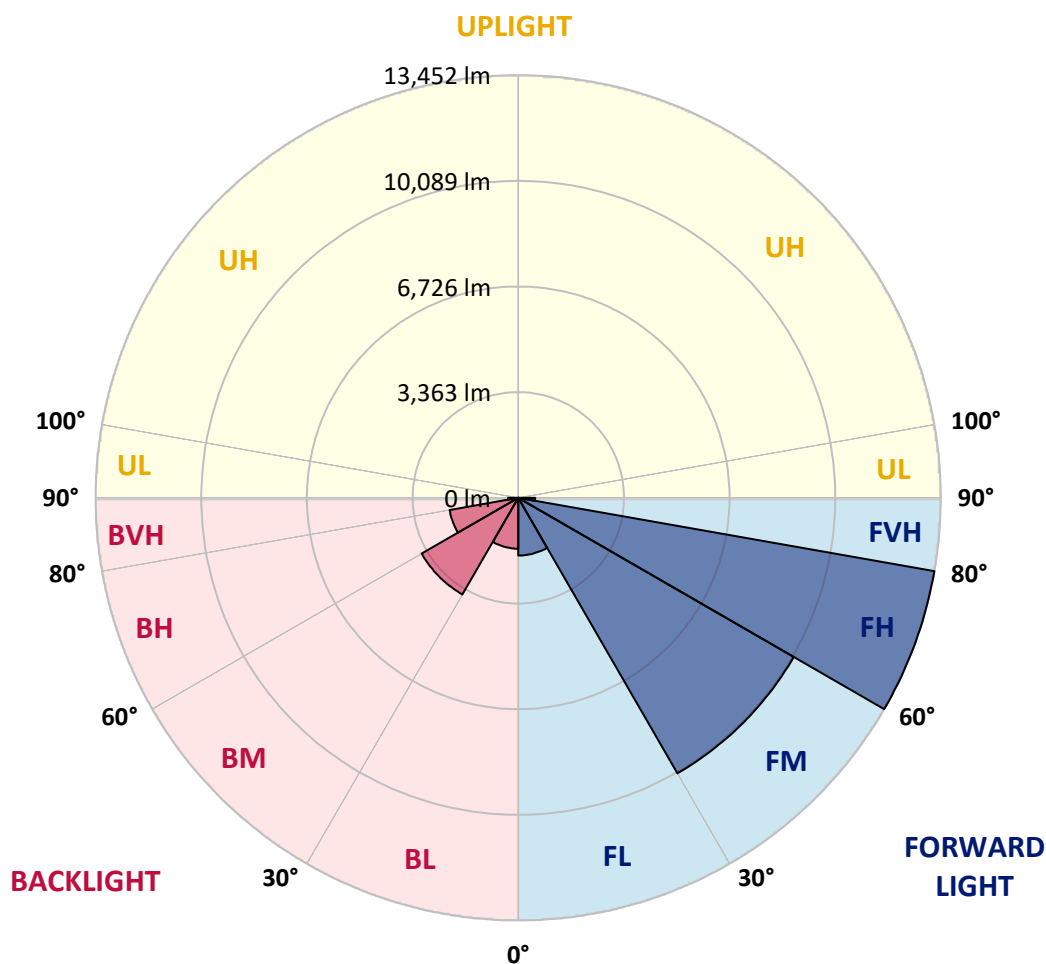
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1837.3	5.5			
FM	(30°-60°)	10127.0	30.1			
FH	(60°-80°)	13451.8	39.9			G5
FVH	(80°-90°)	538.4	1.6			G4/750
BL	(0°-30°)	1620.3	4.8	B3/2500		
BM	(30°-60°)	3552.6	10.6	B3/5000		
BH	(60°-80°)	2218.7	6.6	B3/2500		G3/2500
BVH	(80°-90°)	325.9	1.0			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°	46°	55°	65°	75°	85°
0°	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5
2.5°	3602.2	3604.5	3609.1	3597.6	3565.3	3556.1	3552.7	3519.2	3497.4	3465.1	3437.4
5°	3890.3	3892.6	3885.7	3853.4	3782.0	3729.0	3724.4	3648.3	3579.2	3505.4	3450.1
7.5°	4191.1	4194.5	4172.6	4111.6	4011.3	3919.1	3913.3	3809.6	3704.8	3593.0	3510.0
10°	4457.3	4443.4	4407.7	4322.4	4203.7	4090.8	4086.2	3977.9	3856.9	3722.1	3611.4
12.5°	4634.7	4623.2	4577.1	4473.4	4343.2	4239.5	4230.2	4130.0	4012.4	3865.0	3732.4
15°	4732.7	4740.7	4678.5	4561.0	4434.2	4346.6	4338.6	4267.1	4162.3	4013.6	3861.5
17.5°	4745.3	4752.3	4692.3	4575.9	4472.2	4412.3	4408.9	4361.6	4285.6	4142.7	3983.6
20°	4671.6	4676.2	4626.6	4531.0	4463.0	4444.6	4443.4	4422.7	4366.2	4239.5	4085.0
22.5°	4564.4	4567.9	4532.2	4463.0	4440.0	4468.8	4476.8	4468.8	4428.4	4309.8	4164.6
25°	4537.9	4535.6	4498.7	4428.4	4448.0	4509.1	4519.5	4522.9	4495.3	4391.6	4266.0
27.5°	4665.8	4657.8	4587.5	4474.5	4487.2	4561.0	4574.8	4608.2	4590.9	4499.9	4381.2
30°	5035.7	5021.9	4877.9	4649.7	4587.5	4625.5	4642.8	4695.8	4699.2	4623.2	4534.5
32.5°	5660.3	5643.0	5384.9	4977.0	4756.9	4691.2	4707.3	4786.8	4829.5	4770.7	4675.0
35°	6449.6	6430.1	6091.3	5533.5	5040.3	4816.8	4828.3	4891.7	4977.0	4894.0	4767.2
37.5°	7272.4	7225.2	6899.1	6188.1	5490.9	5085.3	5085.3	5093.3	5133.7	4960.8	4875.6
40°	8090.6	8043.3	7748.3	6957.8	6074.0	5508.2	5481.7	5303.1	5270.8	5122.2	5093.3
42.5°	8851.1	8837.3	8663.3	7827.8	6758.5	5924.2	5887.3	5584.2	5591.2	5499.0	5500.1
45°	9660.1	9660.1	9518.3	8705.9	7555.9	6592.5	6555.7	6109.7	6178.8	6136.2	6238.8
47.5°	10320.4	10341.1	10321.5	9620.9	8483.5	7441.8	7375.0	6838.0	7031.6	7177.9	7476.4
50°	10994.5	11026.7	11030.2	10624.6	9604.8	8451.3	8375.2	7804.8	8236.9	8656.4	9242.9
52.5°	11972.8	12045.4	11756.2	11626.0	10978.3	9649.7	9574.8	9048.2	9769.5	10358.4	11369.0
55°	12879.7	12816.3	12610.1	12690.7	12448.7	11014.1	10957.6	10495.5	11477.3	12242.5	13555.0
57.5°	13370.6	13366.0	13573.4	13919.1	14034.4	12696.5	12649.2	12199.8	13402.9	13977.9	15607.3
60°	13946.8	13954.8	14468.8	15253.5	15728.3	14791.4	14770.7	14429.6	15273.1	15598.1	17217.1
62.5°	14027.4	14172.6	15057.6	16408.2	17313.9	17239.0	17285.1	16438.1	16946.3	16891.0	18419.0
65°	13099.8	13291.1	14892.8	16757.3	18890.3	19915.9	19958.5	18458.2	18265.7	17996.1	18848.8
67.5°	11198.4	11481.9	13222.0	15997.9	19410.0	21894.5	21954.4	20024.2	19360.5	18370.6	17814.0
70°	8149.4	8463.9	10215.5	13663.3	18483.5	22527.1	22595.1	20716.8	19402.0	17304.7	15207.4
72.5°	4922.8	5169.4	6613.3	10058.8	15600.4	21374.8	21495.8	19838.7	17713.8	14657.8	11229.6
75°	2161.8	2323.1	3197.7	5796.3	11168.5	17685.0	17835.9	16980.9	14392.7	10652.2	6637.5
77.5°	920.7	966.8	1311.4	2517.9	6313.7	12084.6	12292.0	12407.3	9764.9	5796.3	2804.8
80°	573.9	592.3	742.1	1139.7	2954.6	6787.3	7010.8	7300.1	4849.0	2130.7	979.5
82.5°	349.2	369.9	493.2	689.1	1538.4	3076.7	3183.9	3387.9	1881.8	920.7	507.0
85°	209.7	224.7	301.9	435.6	875.8	1210.0	1208.8	1336.7	886.1	592.3	267.3
87.5°	100.3	111.8	161.3	225.9	441.3	454.0	425.2	481.7	538.1	388.3	134.8
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°	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5
2.5°	3428.2	3423.6	3408.6	3397.1	3394.8	3387.9	3382.1	3385.6	3390.2	3391.3	3391.3
5°	3427.1	3414.4	3394.8	3386.7	3397.1	3410.9	3428.2	3451.3	3465.1	3475.5	3482.4
7.5°	3482.4	3458.2	3436.3	3431.7	3452.4	3489.3	3528.5	3576.9	3610.3	3633.3	3637.9
10°	3574.6	3544.6	3522.7	3527.3	3564.2	3617.2	3672.5	3734.7	3785.4	3816.6	3818.9
12.5°	3680.6	3651.8	3631.0	3650.6	3711.7	3776.2	3833.8	3888.0	3934.1	3965.2	3965.2
15°	3802.7	3782.0	3757.8	3802.7	3885.7	3943.3	3967.5	3994.0	4019.4	4042.4	4037.8
17.5°	3920.3	3900.7	3888.0	3941.0	4027.4	4053.9	4037.8	4018.2	4018.2	4030.9	4033.2
20°	4021.7	4004.4	4012.4	4064.3	4109.2	4081.6	4021.7	3959.4	3934.1	3941.0	3947.9
22.5°	4110.4	4102.3	4126.5	4150.7	4118.5	4021.7	3911.0	3826.9	3795.8	3793.5	3795.8
25°	4214.1	4213.0	4242.9	4199.1	4056.2	3877.6	3729.0	3647.2	3629.9	3643.7	3666.7
27.5°	4343.2	4355.8	4370.8	4210.7	3929.5	3659.8	3508.9	3452.4	3469.7	3503.1	3525.0
30°	4508.0	4542.5	4510.3	4181.8	3747.4	3410.9	3266.9	3250.8	3298.0	3345.2	3368.3
32.5°	4668.1	4722.3	4643.9	4106.9	3512.3	3147.0	3035.3	3030.7	3088.3	3134.4	3166.6
35°	4797.2	4904.4	4744.2	3958.3	3240.4	2903.9	2822.1	2791.0	2811.7	2865.9	2902.7
37.5°	4965.4	5144.0	4813.3	3731.3	2945.4	2703.4	2607.7	2536.3	2517.9	2539.8	2558.2
40°	5273.1	5509.3	4845.6	3414.4	2657.3	2502.9	2406.1	2301.2	2228.6	2175.6	2176.8
42.5°	5775.5	5985.3	4824.8	3029.5	2391.1	2307.0	2197.5	2076.5	1959.0	1839.1	1829.9
45°	6591.4	6692.8	4762.6	2621.6	2157.2	2101.9	1999.3	1878.3	1721.6	1585.6	1572.9
47.5°	7897.0	7672.3	4665.8	2265.5	1950.9	1927.9	1833.4	1693.9	1528.0	1418.5	1409.3
50°	9677.4	9086.2	4618.6	1982.0	1768.8	1775.8	1698.5	1551.1	1394.3	1313.7	1304.4
52.5°	11806.9	10732.9	4709.6	1763.1	1622.5	1646.7	1589.1	1450.8	1319.4	1256.1	1246.8
55°	14015.9	12438.4	4807.6	1604.1	1484.2	1531.5	1511.9	1397.8	1279.1	1220.3	1212.3
57.5°	15906.9	13711.7	4611.7	1475.0	1360.9	1434.7	1451.9	1364.4	1258.4	1205.3	1196.1
60°	17097.3	14224.5	4097.7	1354.0	1263.0	1357.5	1417.4	1355.2	1266.4	1261.8	1254.9
62.5°	17661.9	14179.6	3326.8	1258.4	1201.9	1324.0	1442.7	1407.0	1358.6	1400.1	1403.6
65°	17408.4	13502.0	2477.5	1195.0	1158.1	1336.7	1518.8	1505.0	1385.1	1426.6	1432.4
67.5°	15739.8	11885.2	1834.5	1139.7	1109.7	1372.4	1657.1	1537.2	1333.3	1363.2	1344.8
70°	12721.8	9422.7	1415.1	1077.4	1060.2	1367.8	1719.3	1517.6	1276.8	1283.7	1234.2
72.5°	8772.8	6425.5	1151.2	1019.8	988.7	1246.8	1675.5	1469.2	1229.5	1176.5	1110.9
75°	4770.7	3449.0	978.3	959.9	863.1	1094.7	1594.8	1434.7	1186.9	1116.6	1079.7
77.5°	1877.2	1431.2	849.3	878.1	754.8	966.8	1505.0	1369.0	1128.1	1036.0	1017.5
80°	766.3	730.6	704.1	759.4	648.8	845.8	1396.6	1291.8	1057.8	961.1	924.2
82.5°	434.4	454.0	547.4	599.2	526.6	779.0	1344.8	1229.5	973.7	860.8	817.0
85°	222.4	266.2	381.4	429.8	387.2	662.6	1238.8	1076.3	781.3	659.1	662.6
87.5°	107.2	148.7	240.8	269.6	251.2	479.4	925.3	780.1	608.4	481.7	466.7
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)