

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: P319162

Luminaire Tested: **GAN-SA8B-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319162
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-SA8B-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33433 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 334
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

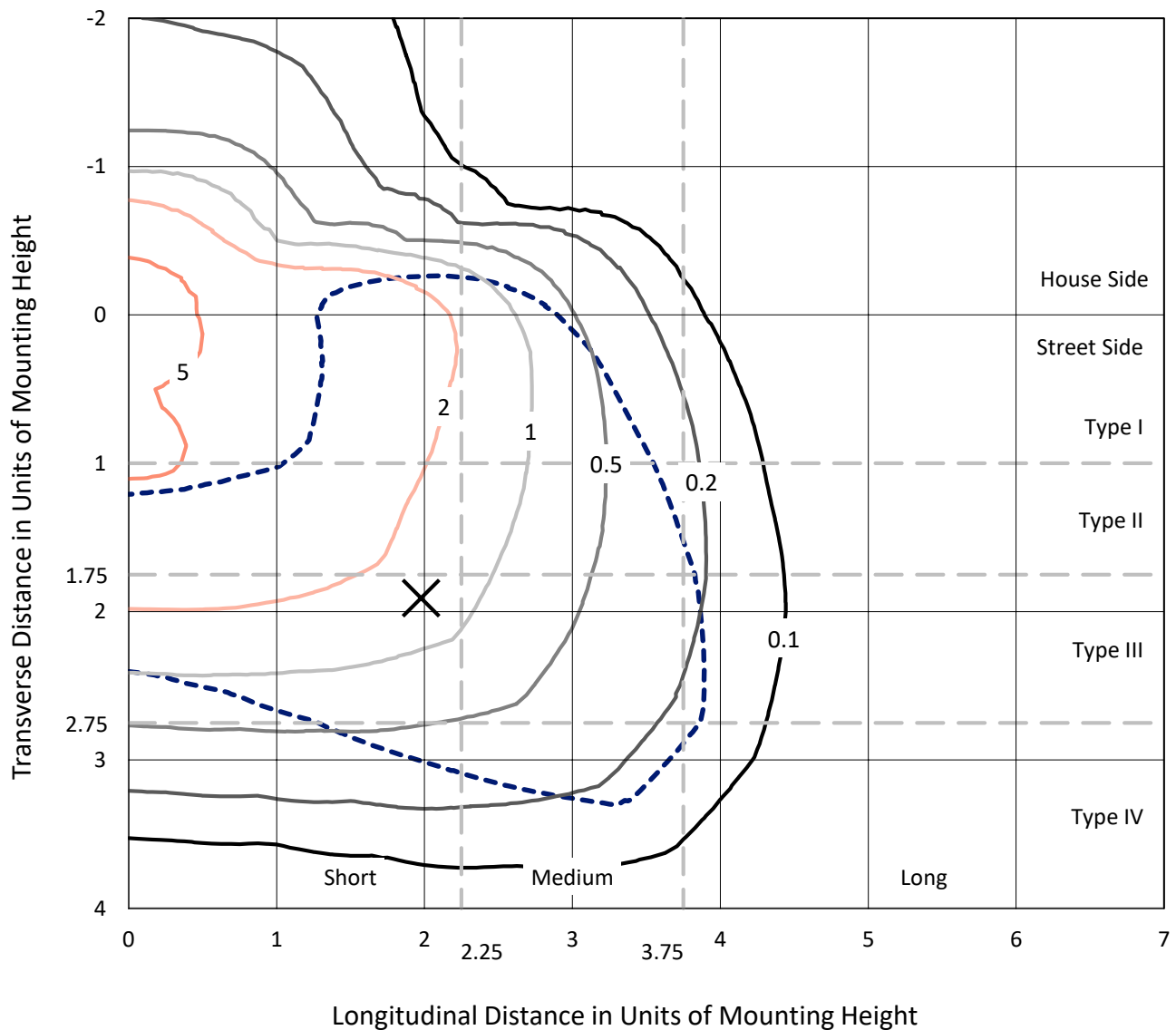


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Iso-Footcandle Lines of Horizontal Illumination

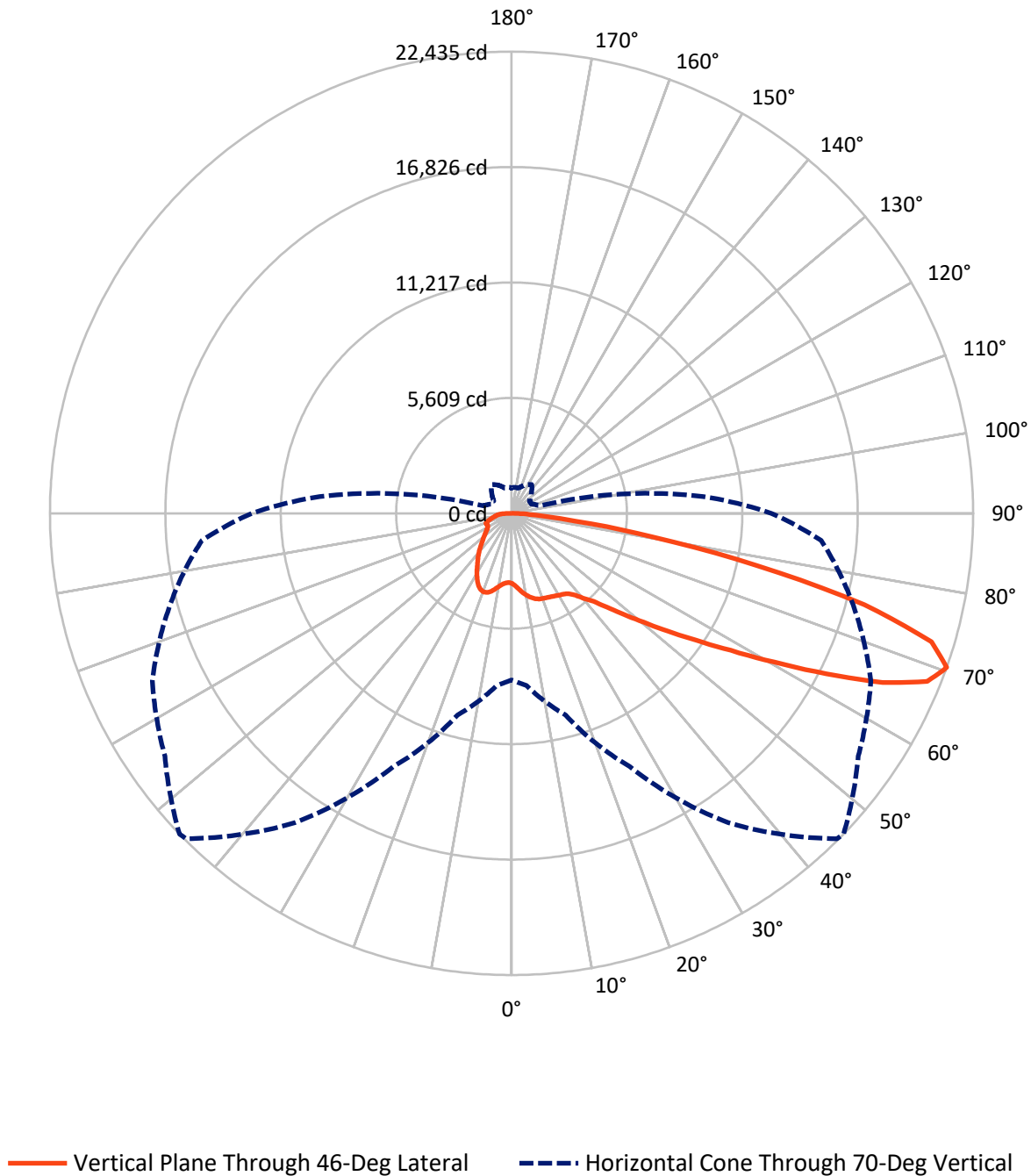
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	7662.7	0.0	7662.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	25770.3	0.0	25770.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	33433.0	0.0	33433.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.2	1.0
10°-20°	1156.9	3.5
20°-30°	1929.0	5.8
30°-40°	2737.3	8.2
40°-50°	4026.4	12.0
50°-60°	6818.8	20.4
60°-70°	9679.1	29.0
70°-80°	5880.1	17.6
80°-90°	858.1	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°	33433.0	100.0
0°-180°	33433.0	100.0

Coefficient of Utilization



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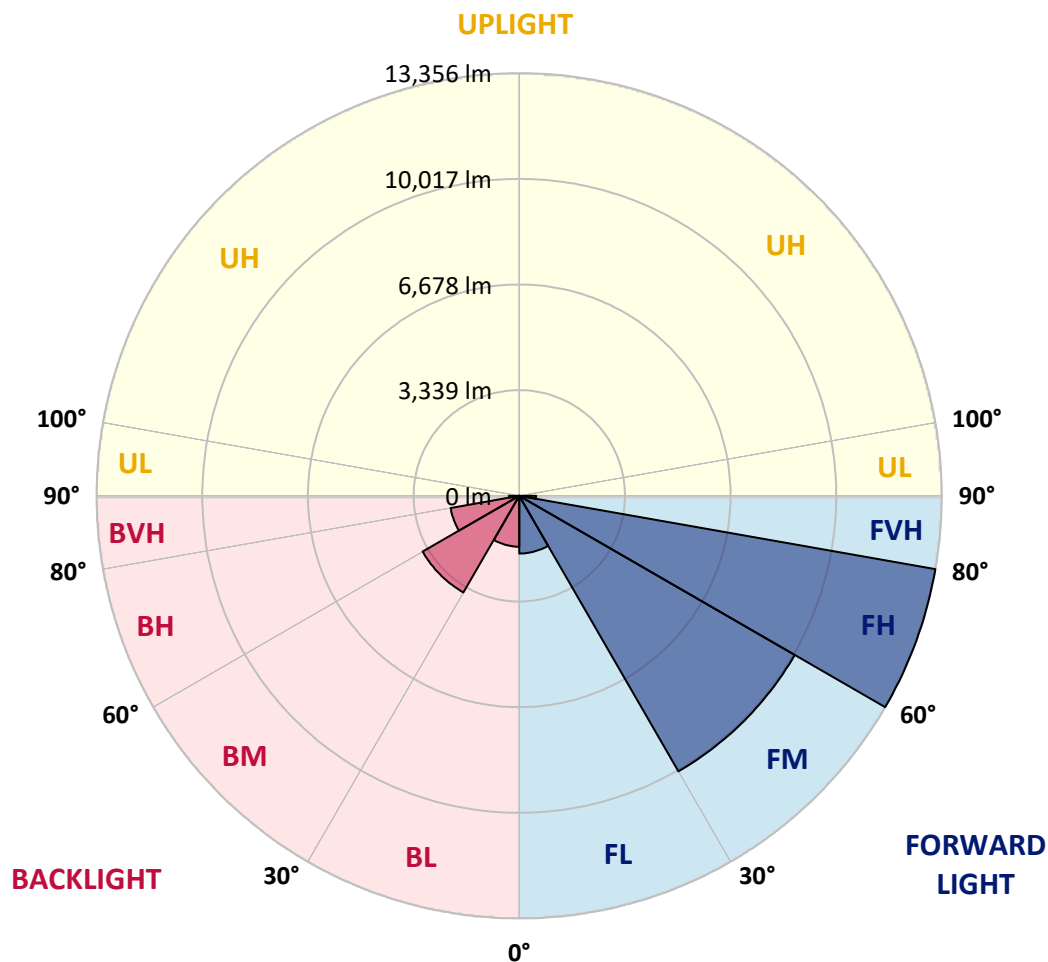
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1824.3	5.5			
FM	(30°-60°)	10055.2	30.1			
FH	(60°-80°)	13356.3	39.9			G5
FVH	(80°-90°)	534.5	1.6			G4/750
BL	(0°-30°)	1608.8	4.8	B3/2500		
BM	(30°-60°)	3527.4	10.6	B3/5000		
BH	(60°-80°)	2203.0	6.6	B3/2500		G3/2500
BVH	(80°-90°)	323.6	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°	3406.2	3406.2	3406.2	3406.2	3406.2	3406.2	3406.2	3406.2	3406.2	3406.2	3406.2
2.5°	3576.6	3578.9	3583.5	3572.1	3540.0	3530.9	3527.4	3494.3	3472.5	3440.5	3413.0
5°	3862.7	3865.0	3858.1	3826.1	3755.1	3702.5	3697.9	3622.4	3553.8	3480.5	3425.6
7.5°	4161.3	4164.7	4143.0	4082.4	3982.8	3891.3	3885.6	3782.6	3678.5	3567.5	3485.1
10°	4425.6	4411.9	4376.4	4291.7	4173.9	4061.8	4057.2	3949.6	3829.5	3695.6	3585.8
12.5°	4601.8	4590.4	4544.6	4441.6	4312.3	4209.4	4200.2	4100.7	3984.0	3837.5	3705.9
15°	4699.1	4707.1	4645.3	4528.6	4402.7	4315.8	4307.8	4236.8	4132.7	3985.1	3834.1
17.5°	4711.7	4718.5	4659.0	4543.5	4440.5	4381.0	4377.6	4330.7	4255.1	4113.3	3955.4
20°	4638.4	4643.0	4593.8	4498.8	4431.3	4413.0	4411.9	4391.3	4335.2	4209.4	4056.1
22.5°	4532.0	4535.5	4500.0	4431.3	4408.5	4437.1	4445.1	4437.1	4397.0	4279.2	4135.0
25°	4505.7	4503.4	4466.8	4397.0	4416.5	4477.1	4487.4	4490.8	4463.4	4360.4	4235.7
27.5°	4632.7	4624.7	4554.9	4442.8	4455.4	4528.6	4542.3	4575.5	4558.3	4468.0	4350.1
30°	5000.0	4986.3	4843.2	4616.7	4554.9	4592.7	4609.8	4662.5	4665.9	4590.4	4502.3
32.5°	5620.1	5603.0	5346.7	4941.6	4723.1	4657.9	4673.9	4752.8	4795.2	4736.8	4641.9
35°	6403.9	6384.4	6048.0	5494.3	5004.6	4782.6	4794.0	4857.0	4941.6	4859.3	4733.4
37.5°	7220.8	7173.9	6850.1	6144.1	5451.9	5049.2	5049.2	5057.2	5097.2	4925.6	4840.9
40°	8033.2	7986.2	7693.3	6908.4	6030.9	5469.1	5442.8	5265.4	5233.4	5085.8	5057.2
42.5°	8788.3	8774.6	8601.8	7772.3	6710.5	5882.1	5845.5	5544.6	5551.5	5459.9	5461.1
45°	9591.5	9591.5	9450.8	8644.1	7502.3	6545.7	6509.1	6066.3	6135.0	6092.7	6194.5
47.5°	10247.1	10267.7	10248.3	9552.6	8423.3	7389.0	7322.6	6789.5	6981.7	7127.0	7423.3
50°	10916.4	10948.5	10951.9	10549.2	9536.6	8391.3	8315.8	7749.4	8178.5	8594.9	9177.3
52.5°	11887.8	11959.9	11672.7	11543.4	10900.4	9581.2	9506.8	8984.0	9700.2	10284.9	11288.3
55°	12788.3	12725.4	12520.6	12600.6	12360.4	10935.9	10879.8	10421.0	11395.8	12155.6	13458.8
57.5°	13275.7	13271.1	13477.1	13820.3	13934.7	12606.4	12559.5	12113.2	13307.7	13878.7	15496.5
60°	13847.8	13855.8	14366.1	15145.3	15616.7	14686.5	14665.9	14327.2	15164.7	15487.4	17094.9
62.5°	13927.9	14072.0	14950.8	16291.7	17191.0	17116.7	17162.4	16321.5	16826.0	16771.1	18288.3
65°	13006.8	13196.8	14787.1	16638.4	18756.2	19774.5	19816.9	18327.2	18136.1	17868.4	18715.0
67.5°	11119.0	11400.4	13128.1	15884.4	19272.3	21739.1	21798.6	19882.1	19223.1	18240.2	17687.6
70°	8091.5	8403.9	10143.0	13566.3	18352.3	22367.2	22434.7	20569.7	19264.2	17181.9	15099.5
72.5°	4887.9	5132.7	6566.3	9987.4	15489.7	21223.0	21343.2	19697.9	17588.0	14553.7	11149.9
75°	2146.4	2306.6	3175.0	5755.1	11089.2	17559.4	17709.3	16860.4	14290.6	10576.6	6590.4
77.5°	914.2	960.0	1302.1	2500.0	6268.9	11998.8	12204.8	12319.2	9695.6	5755.1	2784.9
80°	569.8	588.1	736.8	1131.6	2933.6	6739.1	6961.1	7248.3	4814.6	2115.6	972.5
82.5°	346.7	367.3	489.7	684.2	1527.5	3054.9	3161.3	3363.8	1868.4	914.2	503.4
85°	208.2	223.1	299.8	432.5	869.6	1201.4	1200.2	1327.2	879.9	588.1	265.4
87.5°	99.5	111.0	160.2	224.3	438.2	450.8	422.2	478.3	534.3	385.6	133.9
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°	3406.2	3406.2	3406.2	3406.2	3406.2	3406.2	3406.2	3406.2	3406.2	3406.2	3406.2
2.5°	3403.9	3399.3	3384.4	3373.0	3370.7	3363.8	3358.1	3361.5	3366.1	3367.3	3367.3
5°	3402.7	3390.2	3370.7	3362.7	3373.0	3386.7	3403.9	3426.8	3440.5	3450.8	3457.7
7.5°	3457.7	3433.6	3411.9	3407.3	3427.9	3464.5	3503.4	3551.5	3584.7	3607.5	3612.1
10°	3549.2	3519.4	3497.7	3502.3	3538.9	3591.5	3646.4	3708.2	3758.6	3789.5	3791.8
12.5°	3654.5	3625.8	3605.3	3624.7	3685.3	3749.4	3806.6	3860.4	3906.2	3937.1	3937.1
15°	3775.7	3755.1	3731.1	3775.7	3858.1	3915.3	3939.3	3965.7	3990.8	4013.7	4009.1
17.5°	3892.4	3873.0	3860.4	3913.0	3998.8	4025.2	4009.1	3989.7	3989.7	4002.3	4004.6
20°	3993.1	3976.0	3984.0	4035.5	4080.1	4052.6	3993.1	3931.3	3906.2	3913.0	3919.9
22.5°	4081.2	4073.2	4097.2	4121.3	4089.2	3993.1	3883.3	3799.8	3768.9	3766.6	3768.9
25°	4184.2	4183.1	4212.8	4169.3	4027.4	3850.1	3702.5	3621.3	3604.1	3617.8	3640.7
27.5°	4312.3	4324.9	4339.8	4180.8	3901.6	3633.9	3484.0	3427.9	3445.1	3478.3	3500.0
30°	4476.0	4510.3	4478.2	4152.2	3720.8	3386.7	3243.7	3227.7	3274.6	3321.5	3344.4
32.5°	4635.0	4688.8	4611.0	4077.8	3487.4	3124.7	3013.7	3009.1	3066.4	3112.1	3144.2
35°	4763.1	4869.6	4710.5	3930.2	3217.4	2883.3	2802.1	2771.2	2791.8	2845.5	2882.1
37.5°	4930.2	5107.5	4779.2	3704.8	2924.5	2684.2	2589.2	2518.3	2500.0	2521.7	2540.0
40°	5235.7	5470.2	4811.2	3390.2	2638.4	2485.1	2389.0	2284.9	2212.8	2160.2	2161.3
42.5°	5734.5	5942.8	4790.6	3008.0	2374.1	2290.6	2181.9	2061.8	1945.1	1826.1	1816.9
45°	6544.6	6645.3	4728.8	2603.0	2141.9	2087.0	1985.1	1865.0	1709.4	1574.4	1561.8
47.5°	7840.9	7617.8	4632.7	2249.4	1937.1	1914.2	1820.4	1681.9	1517.2	1408.5	1399.3
50°	9608.7	9021.7	4585.8	1968.0	1756.3	1763.2	1686.5	1540.0	1384.4	1304.3	1295.2
52.5°	11723.1	10656.7	4676.2	1750.6	1611.0	1635.0	1577.8	1440.5	1310.1	1247.1	1238.0
55°	13916.4	12350.1	4773.4	1592.7	1473.7	1520.6	1501.1	1387.9	1270.0	1211.7	1203.7
57.5°	15794.0	13614.4	4578.9	1464.5	1351.3	1424.5	1441.6	1354.7	1249.4	1196.8	1187.6
60°	16975.9	14123.5	4068.6	1344.4	1254.0	1347.8	1407.3	1345.5	1257.4	1252.9	1246.0
62.5°	17536.6	14078.9	3303.2	1249.4	1193.4	1314.6	1432.5	1397.0	1349.0	1390.2	1393.6
65°	17284.8	13406.1	2459.9	1186.5	1149.9	1327.2	1508.0	1494.3	1375.3	1416.5	1422.2
67.5°	15628.1	11800.9	1821.5	1131.6	1101.8	1362.7	1645.3	1526.3	1323.8	1353.5	1335.2
70°	12631.5	9355.8	1405.0	1069.8	1052.6	1358.1	1707.1	1506.9	1267.7	1274.6	1225.4
72.5°	8710.5	6379.8	1143.0	1012.6	981.7	1238.0	1663.6	1458.8	1220.8	1168.2	1103.0
75°	4736.8	3424.5	971.4	953.1	857.0	1087.0	1583.5	1424.5	1178.5	1108.7	1072.1
77.5°	1863.8	1421.0	843.2	871.9	749.4	960.0	1494.3	1359.3	1120.1	1028.6	1010.3
80°	760.9	725.4	699.1	754.0	644.2	839.8	1386.7	1282.6	1050.3	954.2	917.6
82.5°	431.3	450.8	543.5	595.0	522.9	773.5	1335.2	1220.8	966.8	854.7	811.2
85°	220.8	264.3	378.7	426.8	384.4	657.9	1230.0	1068.6	775.7	654.5	657.9
87.5°	106.4	147.6	239.1	267.7	249.4	476.0	918.8	774.6	604.1	478.3	463.4
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)