

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: P319482

Luminaire Tested: **GAN-SA8B-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319482
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32983 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
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

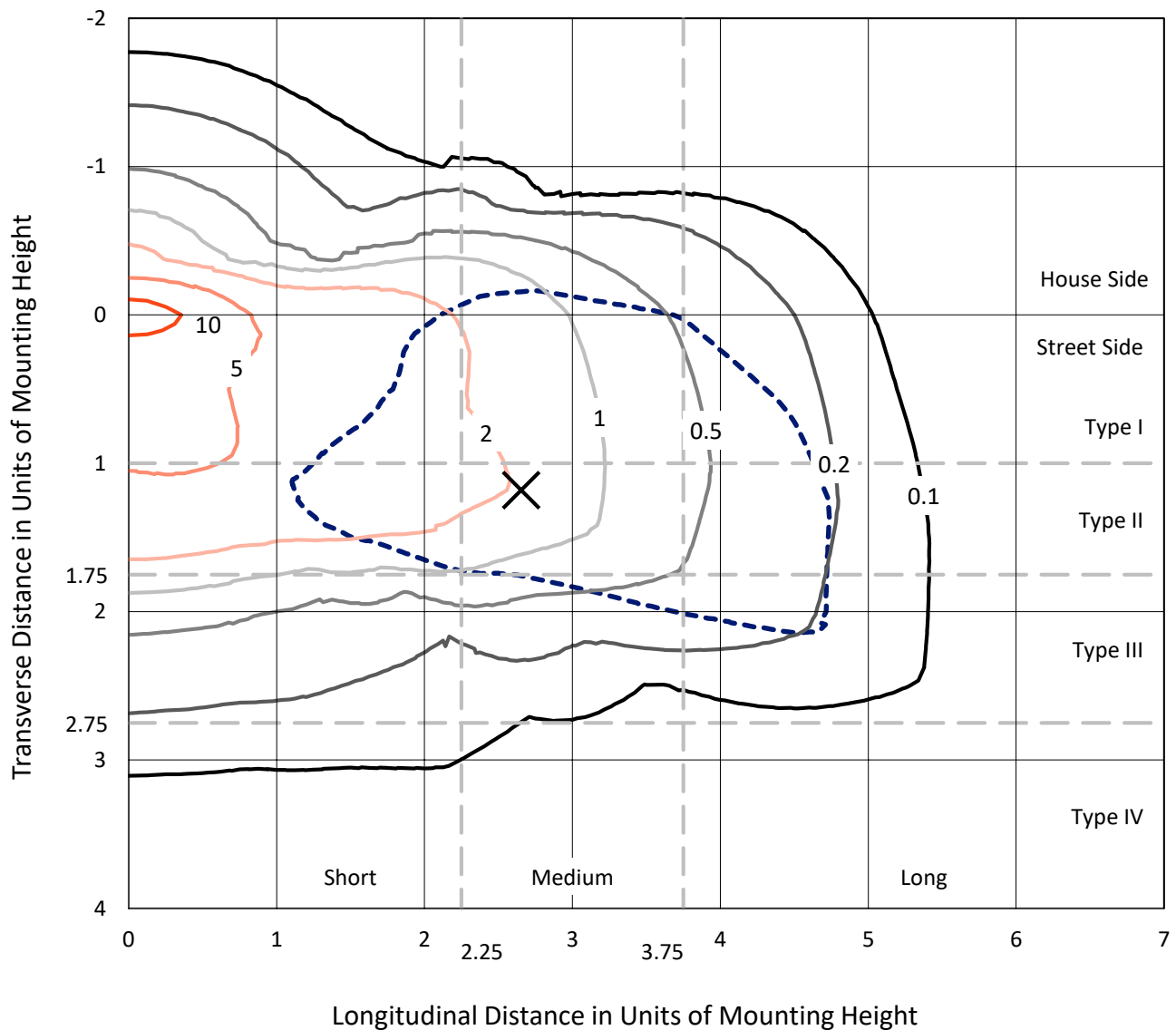


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Iso-Footcandle Lines of Horizontal Illumination

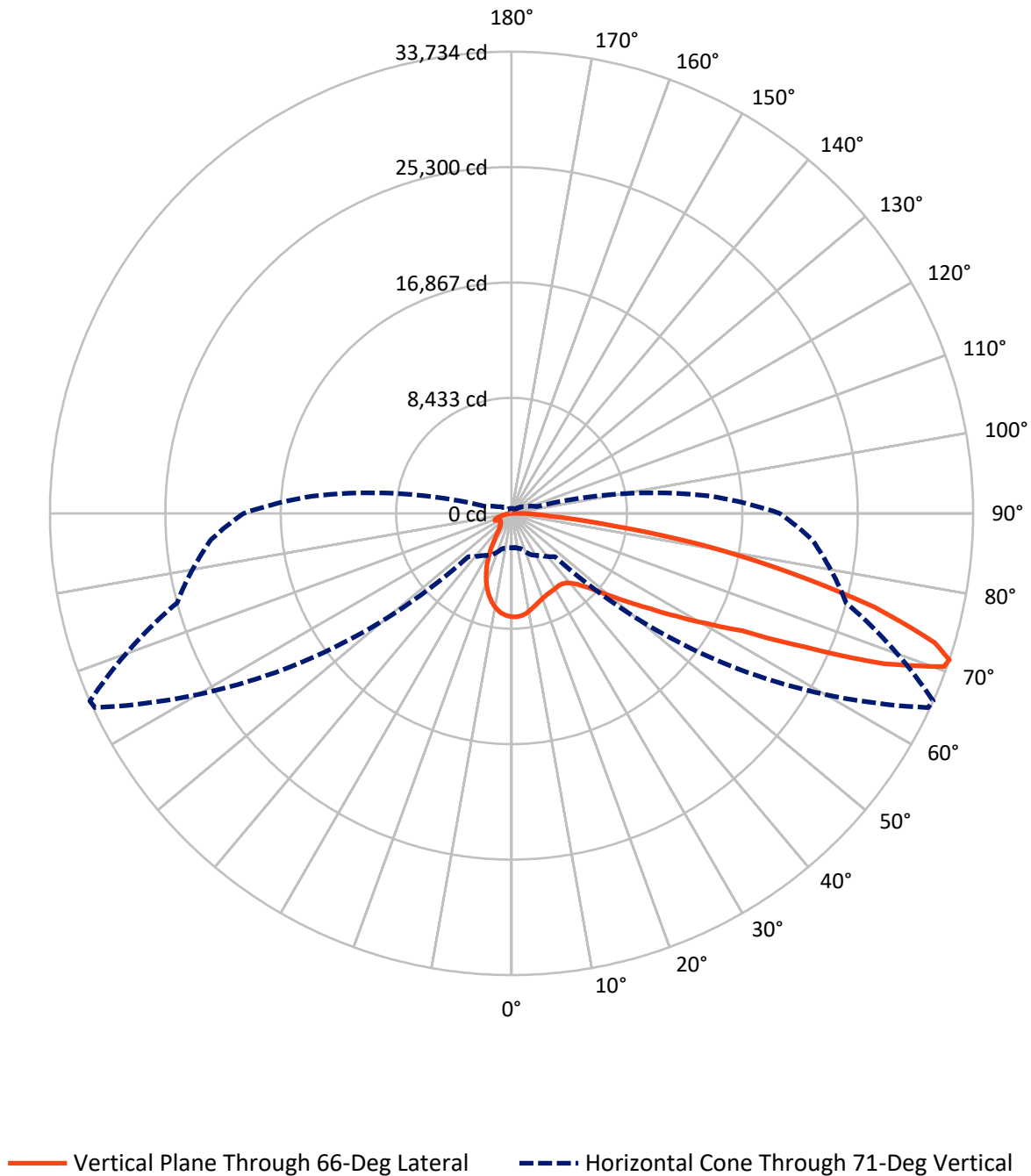
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6112.7	0.0	6112.7
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	26870.3	0.0	26870.3
	% Fixture	81.5	0.0	81.5
Total	Lumens	32983.0	0.0	32983.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	665.1	2.0
10°-20°	1595.2	4.8
20°-30°	2142.7	6.5
30°-40°	2818.7	8.5
40°-50°	4100.5	12.4
50°-60°	6405.4	19.4
60°-70°	8023.8	24.3
70°-80°	6120.3	18.6
80°-90°	1111.4	3.4
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°	32983.0	100.0
0°-180°	32983.0	100.0

Coefficient of Utilization



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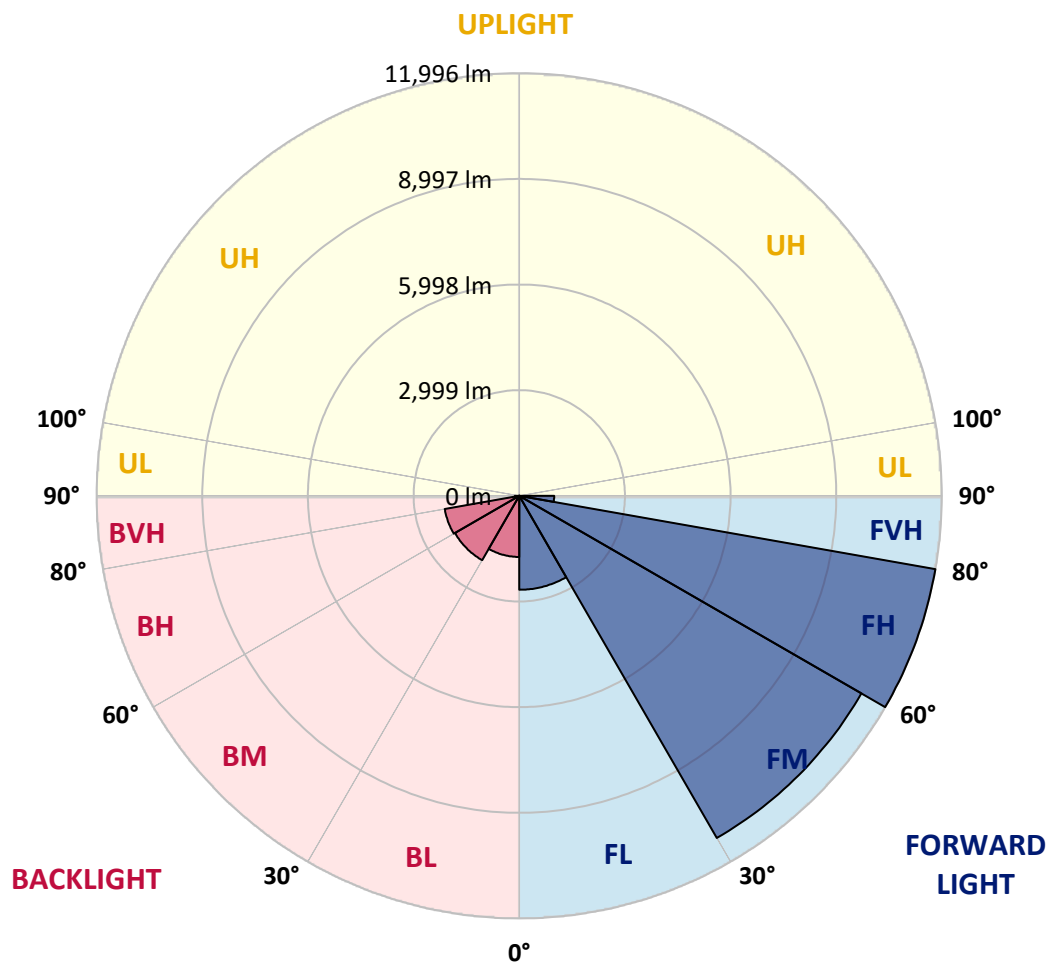
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2667.1	8.1			
FM	(30°-60°)	11215.9	34.0			
FH	(60°-80°)	11996.3	36.4			G4/12000
FVH	(80°-90°)	991.1	3.0			G5
BL	(0°-30°)	1735.8	5.3	B3/2500		
BM	(30°-60°)	2108.7	6.4	B2/2500		
BH	(60°-80°)	2147.8	6.5	B3/2500		G3/2500
BVH	(80°-90°)	120.3	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7555.8	7555.8	7555.8	7555.8	7555.8	7555.8	7555.8	7555.8	7555.8	7555.8	7555.8
2.5°	7415.7	7404.3	7438.5	7473.8	7487.4	7510.2	7544.4	7563.7	7562.6	7566.0	7554.6
5°	6923.7	6908.9	6977.3	7033.1	7140.1	7260.8	7407.7	7512.5	7514.8	7574.0	7589.9
7.5°	6458.0	6447.7	6526.3	6616.3	6740.4	6924.9	7162.9	7388.4	7402.0	7562.6	7618.4
10°	6084.5	6082.2	6158.5	6256.4	6401.0	6607.2	6880.5	7210.7	7231.2	7507.9	7623.0
12.5°	5792.9	5797.5	5863.5	5975.1	6127.7	6343.0	6639.1	7011.4	7044.5	7421.4	7596.8
15°	5577.7	5595.9	5649.5	5762.2	5912.5	6131.2	6435.2	6827.0	6877.1	7324.6	7582.0
17.5°	5454.7	5475.2	5512.8	5606.2	5747.4	5958.1	6246.2	6675.5	6721.0	7250.6	7583.1
20°	5418.3	5435.4	5457.0	5513.9	5633.5	5824.8	6097.0	6538.8	6587.8	7191.4	7594.5
22.5°	5490.0	5502.6	5504.8	5500.3	5573.2	5729.2	5988.8	6438.6	6491.0	7152.6	7602.5
25°	5643.8	5660.8	5648.3	5606.2	5582.3	5677.9	5933.0	6372.6	6425.0	7124.2	7586.5
27.5°	5874.9	5877.2	5867.0	5812.3	5699.6	5683.6	5915.9	6333.9	6384.0	7091.1	7553.5
30°	6189.2	6204.0	6185.8	6111.8	5927.3	5774.7	5936.4	6296.3	6341.8	7049.0	7500.0
32.5°	6557.1	6593.5	6592.4	6514.9	6250.7	5978.6	6020.7	6273.5	6308.8	7004.6	7435.1
35°	6938.6	6988.7	7082.0	7049.0	6722.2	6300.8	6182.4	6309.9	6333.9	6998.9	7389.5
37.5°	7334.8	7385.0	7577.4	7666.2	7283.6	6762.0	6437.5	6438.6	6450.0	7068.4	7386.1
40°	7749.4	7802.9	8092.1	8323.3	8011.3	7346.2	6848.6	6707.4	6694.9	7239.2	7453.3
42.5°	8330.1	8378.0	8725.3	9020.2	8818.7	8094.4	7416.8	7121.9	7095.7	7574.0	7668.5
45°	9064.6	9105.6	9474.6	9790.0	9686.4	8948.5	8130.8	7692.4	7687.9	8132.0	8104.7
47.5°	9938.1	9970.0	10301.4	10606.5	10644.1	9931.2	9028.2	8572.7	8498.7	8897.2	8779.9
50°	10848.0	10883.3	11108.7	11436.7	11715.7	11246.5	10182.9	9651.1	9552.0	9907.3	9736.5
52.5°	11450.4	11497.1	11692.9	12108.6	12920.5	12688.2	11548.3	10958.4	10808.1	11131.5	11000.6
55°	11181.6	11286.4	11585.9	12252.1	13883.9	14890.6	13232.6	12483.2	12313.6	12582.3	12504.9
57.5°	9959.7	10103.2	10512.0	11540.3	14019.4	16831.1	15778.9	14279.1	14159.5	14082.1	14117.4
60°	7726.6	7864.4	8371.1	9711.5	13075.4	18247.7	19610.8	16492.9	16319.8	15587.5	15619.4
62.5°	5468.4	5398.9	5746.3	6726.7	10624.8	18414.0	23971.2	19453.7	18884.3	17177.3	17037.2
65°	4170.2	4154.2	4310.3	4622.3	6435.2	16424.5	26568.7	24430.1	23540.7	19047.1	18716.9
67.5°	3426.6	3398.1	3551.8	4006.2	4144.0	10596.3	26625.7	30203.7	29330.3	21374.8	20659.6
70°	2817.3	2785.4	2928.9	3515.4	3829.7	5373.9	22408.8	33584.7	33538.0	24321.9	22126.4
71°	2525.8	2503.0	2675.0	3326.4	3762.5	4478.8	19347.8	33593.8	33733.9	25319.5	22039.8
72.5°	2056.6	2064.6	2246.8	2960.8	3712.4	3955.0	14219.9	32028.0	32324.1	26270.4	21252.9
75°	1366.5	1373.4	1612.5	2277.5	3599.7	3869.6	7815.4	26875.1	27419.4	25701.0	19393.3
77.5°	917.9	915.6	1078.4	1562.4	3136.2	3869.6	4582.4	20100.5	20698.4	20450.1	14951.0
80°	632.0	627.5	742.5	1078.4	2374.3	3916.2	3542.7	14086.6	14267.7	11043.8	6076.5
82.5°	387.2	390.6	485.1	761.8	1615.9	3524.5	3344.6	7681.0	7484.0	3097.5	1518.0
85°	222.1	220.9	309.7	515.9	1037.4	2974.5	3261.4	3305.9	3032.6	932.7	548.9
87.5°	79.7	85.4	166.3	285.8	594.4	2071.4	2767.2	1719.5	1549.9	421.3	248.3
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°	7555.8	7555.8	7555.8	7555.8	7555.8	7555.8	7555.8	7555.8	7555.8	7555.8	7555.8
2.5°	7546.7	7553.5	7545.5	7500.0	7461.2	7398.6	7363.3	7314.3	7299.5	7292.7	7310.9
5°	7575.1	7577.4	7510.2	7390.6	7256.3	7098.0	6984.1	6844.0	6778.0	6749.5	6767.7
7.5°	7601.3	7591.1	7444.2	7215.3	6967.0	6691.4	6446.6	6222.3	6091.3	6037.8	6042.3
10°	7604.7	7561.5	7325.7	6971.6	6586.7	6182.4	5806.6	5460.4	5241.8	5099.4	5142.7
12.5°	7569.4	7496.6	7151.5	6656.1	6122.1	5570.9	5063.0	4543.7	4231.7	4087.1	4091.6
15°	7542.1	7410.0	6937.4	6284.9	5567.5	4837.5	4144.0	3533.6	3201.1	3053.1	2983.6
17.5°	7519.3	7316.6	6689.2	5867.0	4912.7	3986.8	3153.3	2608.9	2426.7	2383.5	2365.2
20°	7487.4	7217.6	6412.4	5383.0	4166.8	3034.8	2302.6	2033.9	2035.0	2085.1	2091.9
22.5°	7443.0	7104.8	6117.5	4839.8	3366.2	2210.4	1805.0	1727.5	1806.1	1901.8	1918.8
25°	7377.0	6971.6	5789.5	4239.7	2566.8	1699.1	1541.9	1538.5	1634.1	1734.4	1749.2
27.5°	7283.6	6797.3	5425.1	3595.1	1891.5	1444.0	1381.3	1405.2	1475.9	1548.7	1554.4
30°	7158.3	6594.6	5023.1	2915.3	1482.7	1285.7	1278.8	1300.5	1343.8	1395.0	1399.6
32.5°	7020.5	6388.5	4593.8	2257.1	1269.7	1200.3	1207.1	1217.3	1237.8	1258.3	1262.9
35°	6895.3	6177.8	4154.2	1715.0	1168.4	1144.5	1139.9	1137.6	1139.9	1133.1	1134.2
37.5°	6814.4	6003.6	3696.5	1365.4	1110.3	1095.5	1081.8	1064.8	1045.4	1034.0	1036.3
40°	6784.8	5873.8	3233.0	1179.8	1062.5	1052.2	1026.0	989.6	966.8	960.0	960.0
42.5°	6864.5	5806.6	2785.4	1086.4	1022.6	1005.5	962.3	920.1	903.0	901.9	900.8
45°	7108.2	5833.9	2359.5	1035.1	986.2	953.2	896.2	860.9	849.5	851.8	850.7
47.5°	7545.5	6005.9	1995.1	1001.0	949.7	906.5	842.7	814.2	800.6	800.6	801.7
50°	8289.1	6407.9	1704.7	972.5	919.0	863.2	804.0	768.7	750.5	749.3	749.3
52.5°	9372.1	7127.6	1523.7	948.6	884.8	824.5	765.3	720.8	699.2	694.7	692.4
55°	10729.5	8159.3	1473.6	932.7	839.3	782.3	718.6	674.2	650.2	640.0	638.9
57.5°	12247.5	9414.2	1572.6	913.3	792.6	732.2	667.3	625.2	600.1	587.6	586.5
60°	13783.7	10784.2	1976.9	886.0	753.9	677.6	614.9	576.2	551.2	537.5	535.2
62.5°	15322.2	12228.2	2802.5	883.7	726.5	625.2	561.4	528.4	504.5	489.7	486.3
65°	17057.7	13808.8	3740.9	944.0	717.4	577.4	506.8	480.6	460.1	446.4	445.3
67.5°	19050.6	15593.2	3650.9	1068.2	748.2	534.1	455.5	435.0	420.2	408.8	407.7
70°	19985.5	15314.2	2269.6	1155.9	791.4	492.0	406.5	391.7	380.4	372.4	369.0
71°	19593.7	14541.0	1902.9	1145.6	786.9	473.7	387.2	375.8	364.4	357.6	354.2
72.5°	18525.6	13261.0	1587.5	1065.9	735.6	440.7	362.1	350.7	340.5	332.5	330.2
75°	16623.8	11843.3	1270.9	851.8	586.5	372.4	317.7	305.2	297.2	292.7	288.1
77.5°	12220.2	8452.0	982.8	673.0	431.6	304.1	271.0	261.9	253.9	247.1	243.7
80°	4681.5	3274.0	661.6	502.2	316.6	240.3	218.6	214.1	206.1	201.6	201.6
82.5°	1260.6	978.2	353.0	304.1	211.8	175.4	167.4	165.1	158.3	149.2	150.3
85°	510.2	431.6	198.1	167.4	129.8	103.6	112.7	113.9	105.9	94.5	95.7
87.5°	224.3	183.3	110.5	74.0	56.9	39.9	51.2	51.2	46.7	38.7	35.3
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)