

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: P323982

Luminaire Tested: **GAN-SA8D-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323982
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37102 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

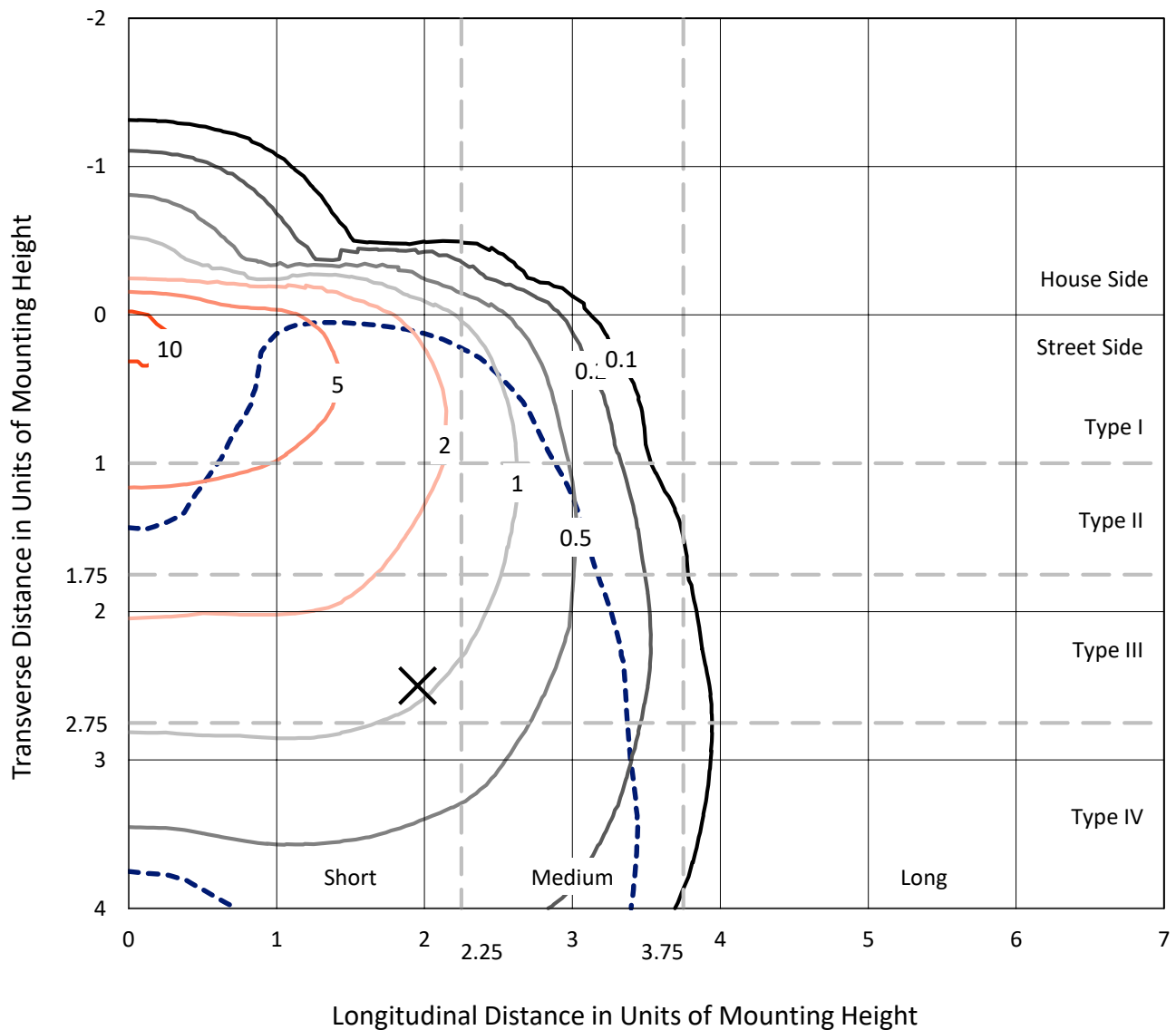
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

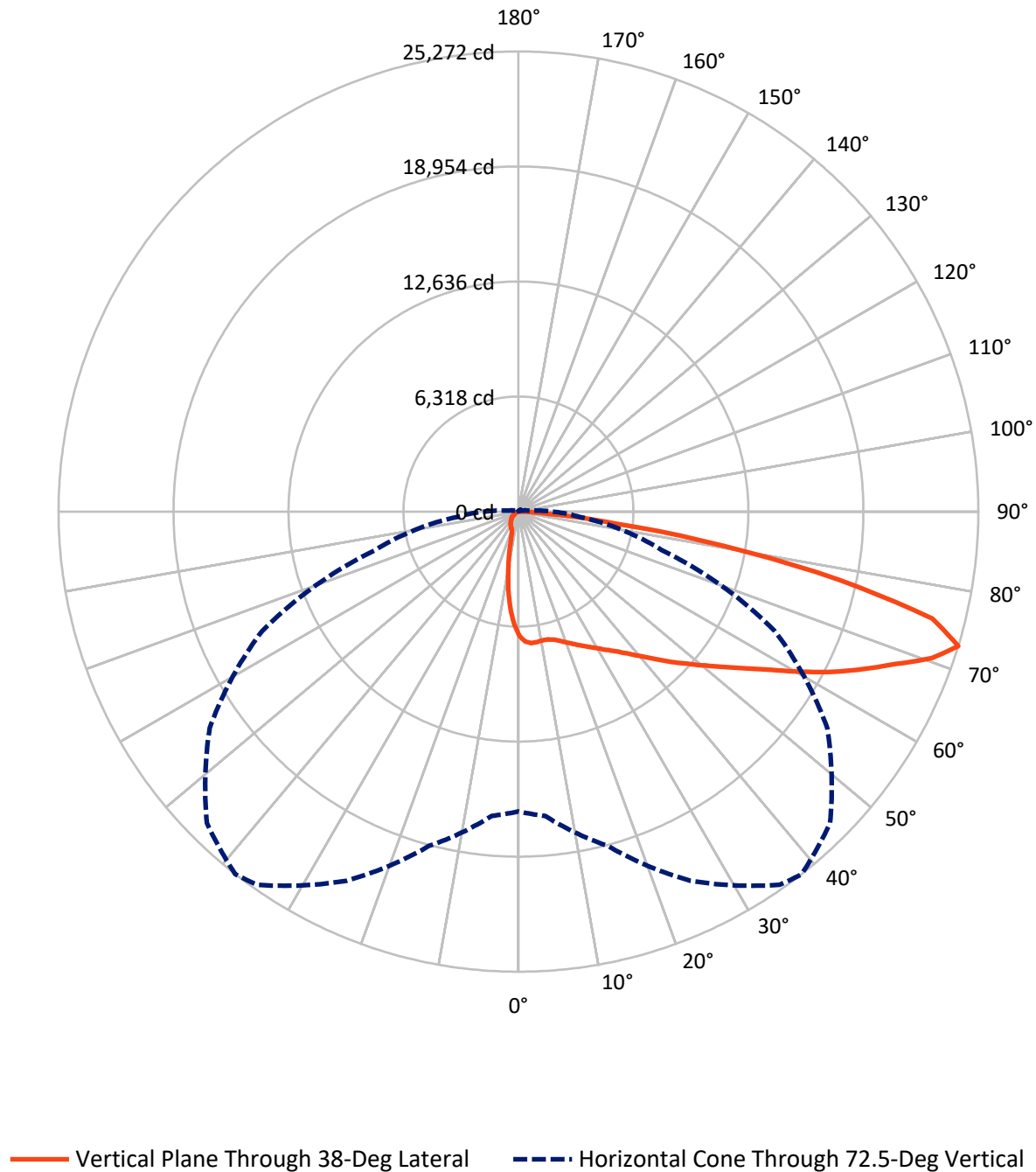
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	3122.3	0.0	3122.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	33979.7	0.0	33979.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	37102.0	0.0	37102.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.4	1.6
10°-20°	1421.8	3.8
20°-30°	2261.3	6.1
30°-40°	3399.6	9.2
40°-50°	5186.3	14.0
50°-60°	7330.0	19.8
60°-70°	9194.3	24.8
70°-80°	6874.8	18.5
80°-90°	852.5	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°	37102.0	100.0
0°-180°	37102.0	100.0

Coefficient of Utilization



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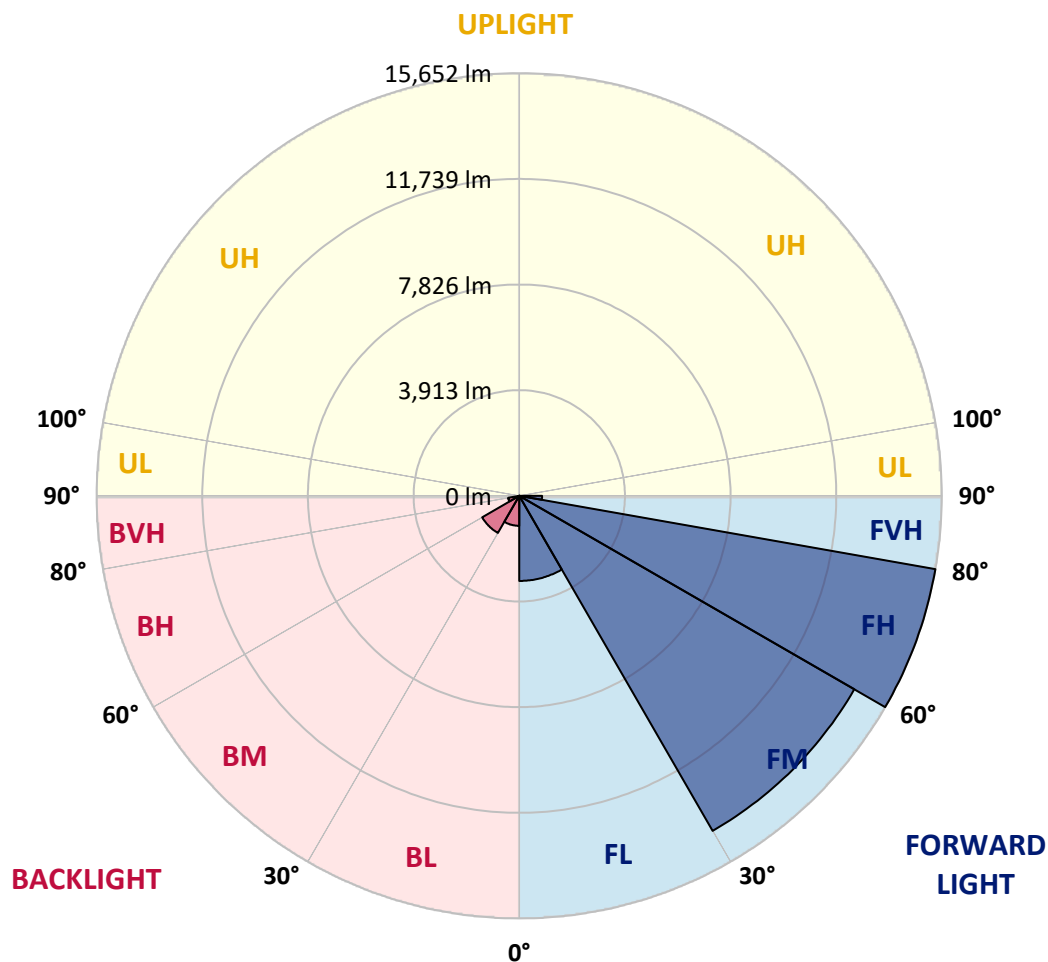
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3152.8	8.5			
FM	(30°-60°)	14330.4	38.6			
FH	(60°-80°)	15652.0	42.2			G5
FVH	(80°-90°)	844.5	2.3			G5
BL	(0°-30°)	1111.7	3.0	B3/2500		
BM	(30°-60°)	1585.5	4.3	B2/2500		
BH	(60°-80°)	417.1	1.1	B1/500		G1/500
BVH	(80°-90°)	8.0	0.0			G0/10
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°	38°	45°	55°	65°	75°	85°
0°	6822.9	6822.9	6822.9	6822.9	6822.9	6822.9	6822.9	6822.9	6822.9	6822.9	6822.9
2.5°	7242.0	7243.6	7226.6	7198.9	7163.5	7145.0	7114.2	7064.9	7012.5	6918.5	6816.8
5°	7390.0	7390.0	7368.4	7331.4	7274.4	7257.5	7198.9	7120.3	7012.5	6859.9	6688.9
7.5°	7374.6	7377.6	7348.4	7309.8	7252.8	7237.4	7166.5	7078.7	6944.7	6759.8	6541.0
10°	7294.4	7302.1	7279.0	7260.5	7208.2	7191.2	7124.9	7037.1	6903.1	6705.8	6454.7
12.5°	7212.8	7220.5	7228.2	7245.1	7212.8	7206.6	7154.2	7080.3	6952.4	6747.4	6463.9
15°	7160.4	7175.8	7231.3	7297.5	7305.2	7299.1	7265.2	7195.8	7066.4	6853.8	6530.2
17.5°	7160.4	7185.0	7300.6	7427.0	7471.6	7476.3	7447.0	7349.9	7195.8	6967.8	6591.8
20°	7220.5	7254.4	7434.7	7613.4	7687.4	7687.4	7630.3	7494.8	7314.5	7071.0	6633.4
22.5°	7374.6	7419.2	7645.8	7852.2	7930.8	7913.9	7836.8	7639.6	7437.7	7188.1	6685.8
25°	7678.1	7712.0	7947.8	8155.8	8203.5	8165.0	8068.0	7815.3	7594.9	7346.8	6781.3
27.5°	8069.5	8074.1	8317.6	8493.2	8464.0	8437.8	8316.0	8035.6	7821.4	7573.3	6946.2
30°	8499.4	8499.4	8713.6	8847.6	8758.3	8736.7	8615.0	8302.2	8111.1	7881.5	7180.4
32.5°	8915.4	8933.9	9108.0	9192.8	9092.6	9071.1	8952.4	8639.6	8496.3	8351.5	7545.6
35°	9317.6	9331.5	9496.3	9542.6	9447.0	9453.2	9368.4	9103.4	9049.5	9031.0	8095.7
37.5°	9707.4	9710.5	9878.5	9907.7	9860.0	9912.4	9920.1	9685.9	9786.0	9935.5	8870.7
40°	10063.4	10066.4	10232.9	10308.4	10390.0	10457.8	10517.9	10393.1	10724.4	11071.1	9793.7
42.5°	10348.4	10380.8	10591.9	10735.2	10950.9	11080.3	11243.7	11237.5	11841.5	12362.3	10909.3
45°	10599.6	10655.1	10949.4	11200.5	11570.3	11776.8	12032.6	12232.9	13098.9	13800.0	12038.8
47.5°	10930.9	10983.3	11319.2	11730.6	12223.7	12494.8	12918.6	13351.6	14481.0	15211.4	13142.0
50°	11397.8	11374.6	11705.9	12296.1	12929.4	13285.3	13889.3	14538.0	15852.4	16441.0	13790.7
52.5°	11895.5	11886.2	12131.2	12910.9	13761.4	14177.5	14975.6	15764.6	17163.7	17288.5	14088.1
55°	12511.8	12445.5	12652.0	13612.0	14749.1	15196.0	16135.9	16978.8	18208.4	17766.1	14237.6
57.5°	13157.4	13048.0	13245.2	14393.2	15863.2	16391.7	17421.0	18162.1	18903.3	18092.8	14236.0
60°	13824.6	13695.2	13929.4	15370.1	17246.9	17858.6	18813.9	18961.8	19552.0	18257.7	14131.2
62.5°	14382.4	14305.4	14653.6	16414.8	18792.3	19393.3	19866.3	19689.1	20099.0	18385.6	13886.2
65°	14972.6	14977.2	15539.6	17633.6	20434.9	20840.2	20880.2	20632.1	20556.6	18359.4	13057.3
67.5°	15770.7	15844.7	16783.1	19288.5	22032.8	22345.6	22342.5	21653.7	20891.0	17317.7	11219.0
70°	16615.1	16789.2	18216.1	21182.2	23777.0	24094.5	23931.1	22304.0	19670.6	14003.4	7940.1
72.5°	16473.4	16775.4	19012.7	22376.4	25029.8	25271.7	24210.0	20706.1	15547.3	8138.8	3380.7
75°	12709.0	13058.8	17433.3	21193.0	23715.4	23498.1	20801.6	16112.8	8496.3	2271.2	761.2
77.5°	6713.5	6900.0	11516.4	16145.1	18491.9	18037.3	14653.6	8938.5	2590.2	562.4	342.1
80°	3516.2	3559.4	5018.6	9160.4	11413.2	11416.2	8684.3	3926.1	1067.8	288.1	229.6
82.5°	1882.9	1919.9	2651.8	4232.7	5980.1	5420.8	3325.2	2160.3	621.0	163.3	220.3
85°	453.0	460.7	1503.9	1933.8	2351.4	1679.5	987.7	1813.6	168.0	95.5	178.7
87.5°	174.1	177.2	557.8	836.7	599.4	388.3	462.3	676.4	21.6	37.0	27.7
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°	6822.9	6822.9	6822.9	6822.9	6822.9	6822.9	6822.9	6822.9	6822.9	6822.9	6822.9
2.5°	6755.1	6715.1	6616.5	6491.7	6380.7	6300.6	6180.4	6101.8	6049.4	6047.9	6027.9
5°	6584.1	6502.4	6289.8	6037.1	5807.5	5601.0	5357.6	5165.0	5021.7	4998.6	4949.2
7.5°	6400.7	6266.7	5940.0	5545.6	5160.3	4769.0	4314.4	4032.4	3790.5	3675.0	3662.6
10°	6288.3	6100.3	5636.5	5066.4	4462.3	3826.0	3231.2	2819.8	2522.4	2437.6	2374.5
12.5°	6265.1	6017.1	5402.3	4616.4	3753.5	2912.2	2254.3	1816.7	1579.4	1503.9	1483.8
15°	6288.3	5978.5	5205.0	4171.1	3035.5	2066.3	1513.1	1258.9	1169.5	1147.9	1146.4
17.5°	6302.1	5932.3	4981.6	3676.5	2339.0	1476.1	1158.7	1084.8	1070.9	1069.4	1072.4
20°	6300.6	5861.4	4715.0	3124.9	1739.6	1160.3	1047.8	1032.4	1029.3	1030.8	1029.3
22.5°	6289.8	5778.2	4422.3	2556.3	1314.4	1037.0	1000.0	990.8	989.2	989.2	989.2
25°	6309.8	5712.0	4100.2	2012.4	1083.2	980.0	956.9	949.2	947.6	947.6	944.5
27.5°	6382.2	5675.0	3747.4	1548.6	978.4	929.1	910.6	909.1	904.5	902.9	906.0
30°	6499.4	5675.0	3360.6	1205.0	915.3	876.8	862.9	859.8	858.3	856.7	858.3
32.5°	6705.8	5718.1	2938.4	1001.6	855.2	818.2	809.0	813.6	809.0	809.0	809.0
35°	7078.7	5847.6	2496.2	873.7	792.0	761.2	751.9	758.1	755.0	755.0	753.5
37.5°	7622.6	6087.9	2050.9	796.6	736.5	704.2	691.8	701.1	698.0	698.0	696.5
40°	8285.2	6437.7	1627.1	738.1	682.6	648.7	637.9	642.5	634.8	634.8	637.9
42.5°	9103.4	6881.5	1257.3	681.1	628.7	596.3	590.2	585.5	571.7	564.0	565.5
45°	10012.5	7343.7	980.0	625.6	577.8	551.6	542.4	530.1	506.9	491.5	493.1
47.5°	10824.6	7699.7	796.6	571.7	531.6	511.6	497.7	474.6	440.7	422.2	423.7
50°	11251.4	7753.6	678.0	517.7	488.5	468.4	448.4	413.0	372.9	352.9	351.3
52.5°	11360.8	7500.9	590.2	468.4	445.3	422.2	396.0	348.2	303.5	282.0	278.9
55°	11400.8	7115.7	511.6	422.2	399.1	372.9	339.0	285.1	243.5	221.9	220.3
57.5°	11268.3	6541.0	449.9	380.6	352.9	320.5	278.9	228.0	188.0	171.0	171.0
60°	10974.0	5762.8	402.2	335.9	305.1	268.1	225.0	177.2	140.2	126.4	126.4
62.5°	10386.9	4755.1	357.5	289.7	260.4	221.9	181.8	134.1	98.6	90.9	92.5
65°	9279.1	3607.2	312.8	248.1	221.9	183.4	141.8	95.5	66.3	66.3	69.3
67.5°	7567.2	2505.4	266.6	211.1	191.1	149.5	107.9	66.3	46.2	52.4	58.6
70°	5009.3	1405.3	228.0	174.1	163.3	118.6	80.1	44.7	37.0	49.3	60.1
72.5°	1890.6	547.0	191.1	140.2	141.8	90.9	57.0	33.9	33.9	53.9	70.9
75°	527.0	268.1	137.1	103.2	110.9	66.3	41.6	29.3	32.4	61.6	83.2
77.5°	309.7	197.2	89.4	60.1	75.5	46.2	27.7	23.1	27.7	52.4	80.1
80°	249.6	104.8	52.4	30.8	41.6	26.2	18.5	13.9	7.7	20.0	41.6
82.5°	249.6	63.2	24.7	21.6	21.6	13.9	9.2	6.2	1.5	0.0	10.8
85°	168.0	26.2	15.4	13.9	10.8	4.6	3.1	1.5	0.0	0.0	0.0
87.5°	27.7	10.8	6.2	3.1	1.5	0.0	0.0	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)