

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: P192817

Luminaire Tested: **GAN-AF-09-LED-U-SL2-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-SL2-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA 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: 33219.2 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 290
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: 28.75 FT



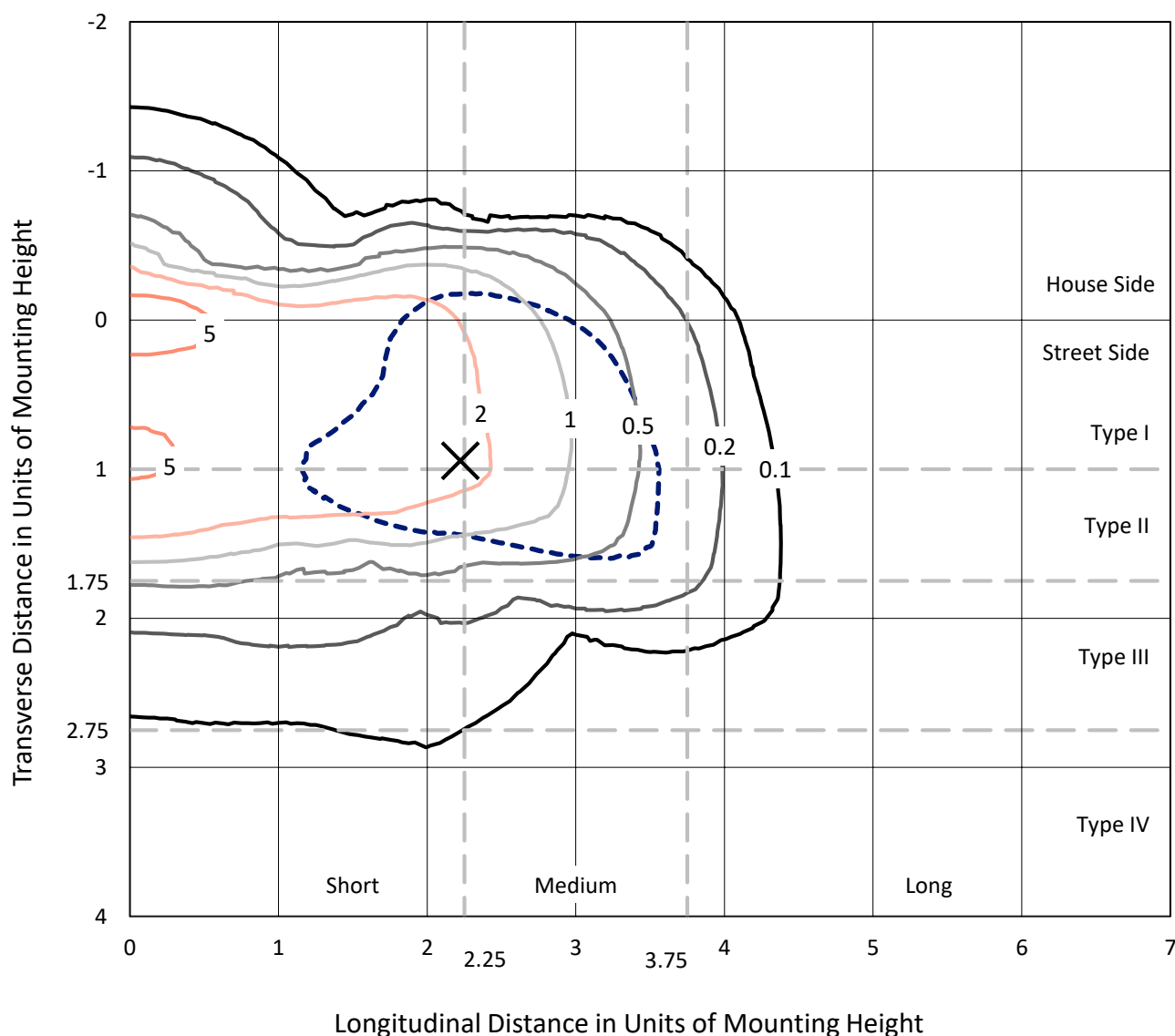
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

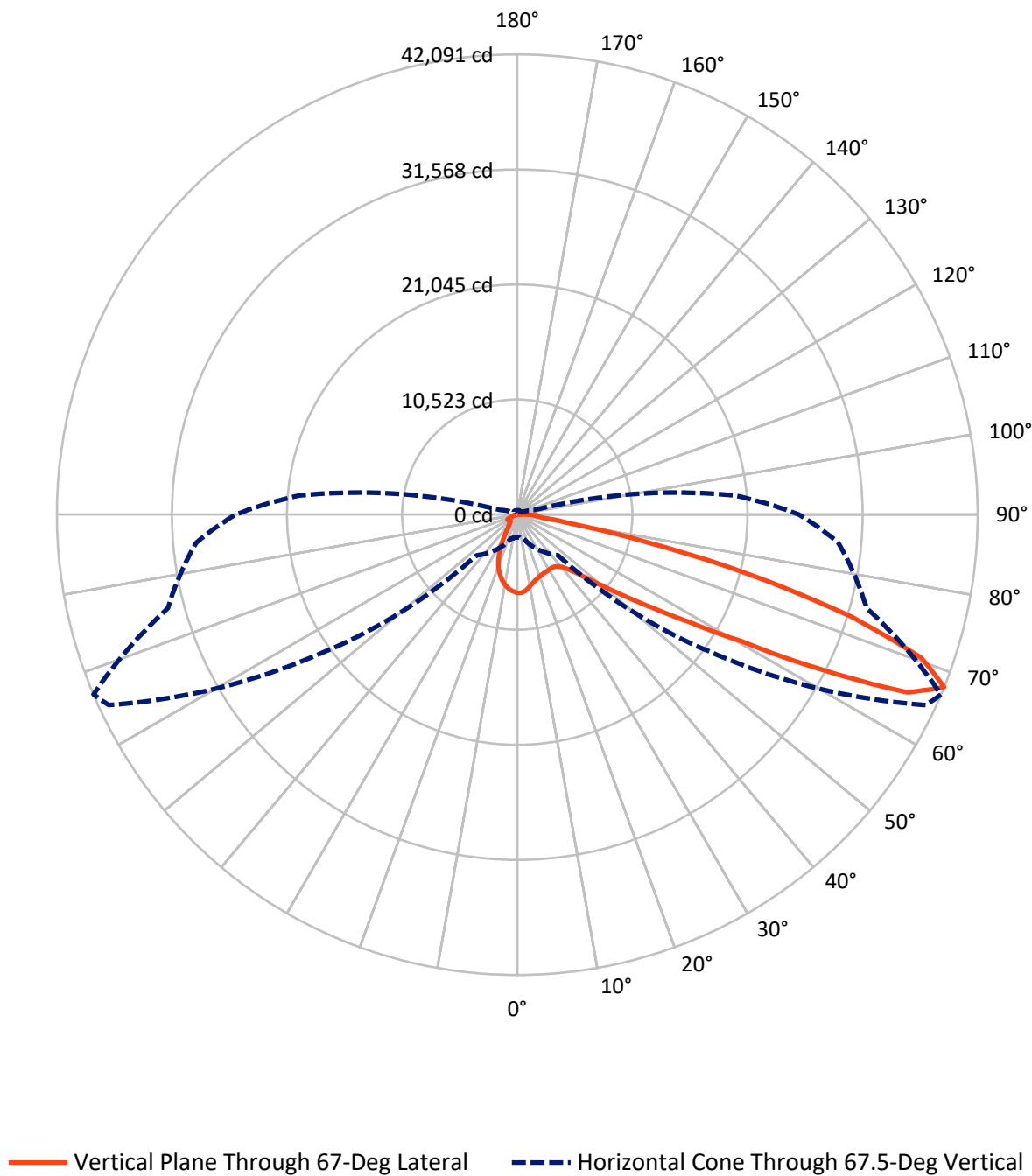


Based on 30 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5504.0	0.0	5504.0
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	27715.1	0.0	27715.1
	% Fixture	83.4	0.0	83.4
Total	Lumens	33219.2	0.0	33219.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.3	1.8
10°-20°	1414.5	4.3
20°-30°	1917.3	5.8
30°-40°	2725.7	8.2
40°-50°	4560.2	13.7
50°-60°	7214.2	21.7
60°-70°	9190.1	27.7
70°-80°	4813.8	14.5
80°-90°	772.0	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°	33219.2	100.0
0°-180°	33219.2	100.0

Coefficient of Utilization



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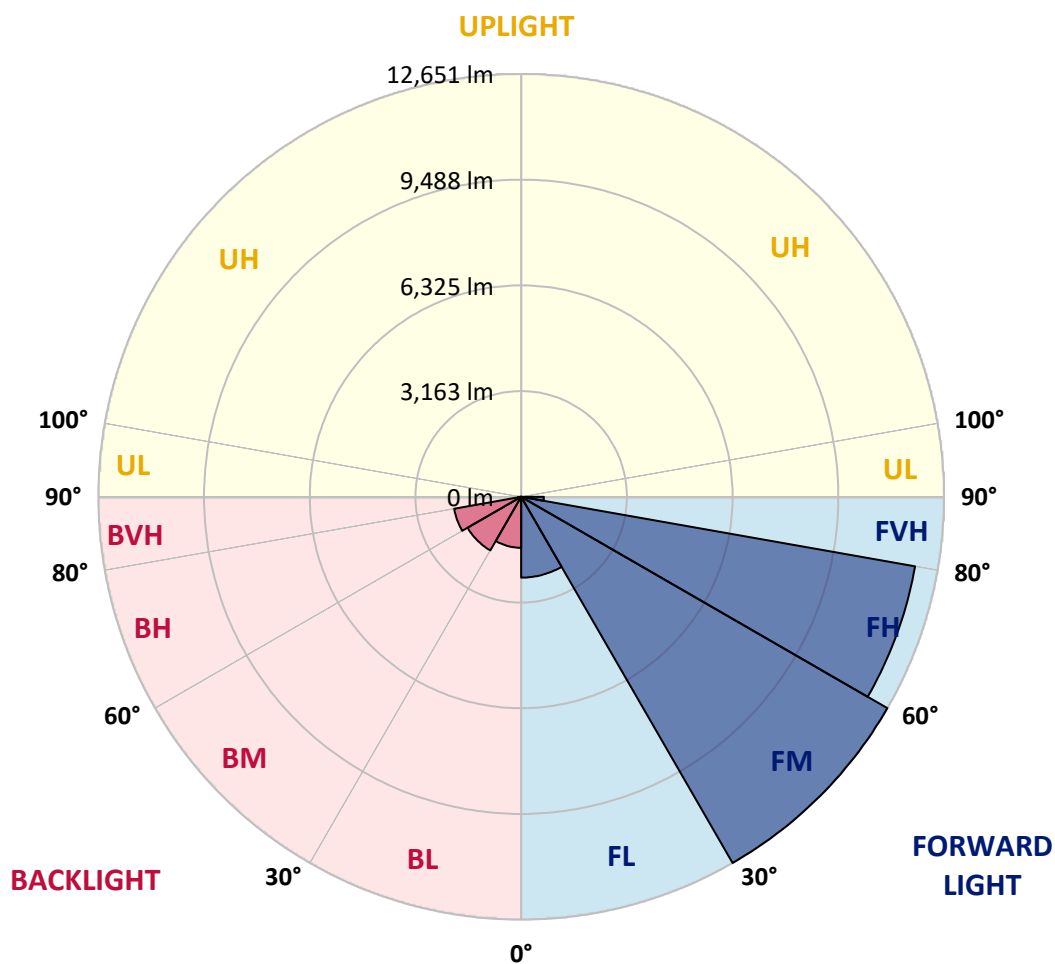
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2417.5	7.3			
FM	(30°-60°)	12650.6	38.1			
FH	(60°-80°)	11968.2	36.0			G4/12000
FVH	(80°-90°)	678.9	2.0			G4/750
BL	(0°-30°)	1525.6	4.6	B3/2500		
BM	(30°-60°)	1849.5	5.6	B2/2500		
BH	(60°-80°)	2035.8	6.1	B3/2500		G3/2500
BVH	(80°-90°)	93.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7165.3	7165.3	7165.3	7165.3	7165.3	7165.3	7165.3	7165.3	7165.3	7165.3	7165.3
2.5°	6870.4	6881.9	6918.0	6940.9	7044.1	7088.3	7119.5	7150.6	7155.5	7170.2	7155.5
5°	6149.6	6174.2	6241.3	6316.8	6516.6	6673.9	6839.3	7011.2	7042.5	7153.9	7185.0
7.5°	5591.1	5584.5	5640.2	5730.3	5935.1	6152.9	6442.9	6785.2	6852.4	7103.1	7224.2
10°	5183.2	5178.3	5237.3	5330.5	5525.5	5732.0	6059.5	6528.0	6623.1	7022.7	7261.9
12.5°	4881.7	4883.4	4942.4	5045.5	5243.8	5451.8	5784.3	6279.0	6400.3	6929.4	7301.2
15°	4681.9	4695.0	4742.5	4852.2	5045.5	5253.6	5579.6	6092.3	6228.4	6855.7	7345.5
17.5°	4614.7	4636.0	4652.4	4732.7	4898.1	5106.1	5425.6	5954.7	6098.9	6804.8	7384.9
20°	4677.0	4701.5	4670.4	4698.2	4803.0	4986.6	5304.3	5846.6	5994.0	6747.6	7389.7
22.5°	4944.0	4966.9	4875.1	4794.9	4788.3	4899.7	5204.4	5761.3	5913.7	6705.0	7391.4
25°	5414.2	5428.9	5274.8	5088.1	4906.3	4868.6	5134.0	5702.5	5864.6	6667.3	7360.2
27.5°	5990.6	6002.1	5825.2	5550.1	5184.8	4942.4	5109.4	5668.1	5836.7	6634.6	7307.8
30°	6691.9	6745.8	6508.3	6161.1	5628.7	5160.2	5158.5	5650.1	5805.6	6578.8	7204.7
32.5°	7409.4	7432.4	7268.5	6916.3	6226.6	5543.5	5296.2	5663.1	5797.4	6511.7	7073.6
35°	8136.7	8166.2	8059.7	7776.3	7044.1	6105.4	5564.8	5740.2	5848.2	6488.7	6981.7
37.5°	9078.7	9118.0	8970.5	8643.0	8038.4	6867.2	6012.0	5933.5	6003.8	6554.3	6954.1
40°	10567.8	10549.7	10118.9	9630.7	9126.2	7841.9	6650.9	6261.0	6302.0	6765.6	7039.1
42.5°	12301.0	12256.7	11514.7	10748.0	10322.0	9021.3	7496.2	6829.5	6821.3	7181.7	7339.0
45°	13683.5	13647.5	12979.1	12034.0	11693.2	10364.7	8588.9	7676.4	7615.8	7841.9	7892.7
47.5°	14432.2	14433.8	14048.9	13277.3	13269.1	12071.6	9992.8	8901.8	8796.9	8903.4	8849.4
50°	14170.1	14204.5	14163.5	13917.8	14707.4	14309.2	11825.9	10610.3	10399.0	10503.8	10295.8
52.5°	12902.1	12946.3	13188.8	13565.5	15311.8	17013.9	14519.0	12733.4	12487.7	12450.0	12219.0
55°	10654.5	10708.6	11203.3	12227.2	14808.9	18830.7	18768.3	15439.7	15048.1	14692.6	14594.3
57.5°	7343.9	7434.0	8230.1	9750.3	13182.2	19379.5	23828.7	19297.5	18501.3	17259.5	17282.5
60°	4139.7	4244.5	5183.2	6564.1	9899.3	18783.1	27678.3	25140.8	23460.0	20265.6	20436.0
62.5°	2632.5	2745.5	3458.2	4560.6	5940.0	15572.2	29255.8	33264.4	31129.9	23971.2	24138.2
65°	2131.2	2180.4	2516.2	3764.5	4313.2	9381.8	28058.4	39956.3	39160.1	28674.3	27894.6
67.5°	2080.4	2096.8	2270.5	3160.0	4136.3	5273.2	22380.4	41207.7	42090.8	33066.2	29458.9
70°	2055.9	2113.2	2558.9	3015.9	3961.0	4447.6	13449.3	37777.5	39171.6	34214.5	27376.9
72.5°	997.6	994.4	1287.6	2727.5	4462.3	4613.0	6909.8	30566.4	31965.3	29642.5	22496.8
75°	804.3	735.6	702.7	999.2	4290.3	4763.8	4403.3	21032.3	22044.7	19874.1	13829.3
77.5°	763.4	681.4	624.1	625.7	1813.4	5052.0	3730.1	11640.7	11935.6	8977.1	3789.0
80°	632.3	557.0	516.0	581.6	878.0	4811.2	4033.1	5268.3	4834.1	2205.0	1261.4
82.5°	439.0	399.7	388.2	488.2	702.7	3428.7	4690.1	2830.7	2373.6	1104.1	778.2
85°	280.1	239.2	265.4	355.5	547.2	1582.5	4830.9	2206.6	1754.4	701.1	439.0
87.5°	129.4	104.9	131.0	196.5	357.2	545.5	4596.6	2478.5	1806.9	370.2	276.9
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°	7165.3	7165.3	7165.3	7165.3	7165.3	7165.3	7165.3	7165.3	7165.3	7165.3	7165.3
2.5°	7168.6	7137.5	7112.9	7067.0	7016.2	6967.0	6922.8	6867.2	6850.8	6836.1	6859.0
5°	7191.6	7160.5	7070.2	6929.4	6773.7	6628.0	6482.2	6357.7	6280.7	6238.0	6262.6
7.5°	7225.9	7181.7	6994.9	6736.1	6456.0	6200.5	5936.7	5725.4	5569.7	5496.1	5517.3
10°	7257.0	7171.9	6867.2	6478.8	6069.4	5689.3	5273.2	4929.2	4673.7	4539.2	4572.1
12.5°	7270.1	7134.2	6688.7	6157.9	5595.9	5038.9	4426.3	3911.9	3544.9	3410.6	3382.7
15°	7283.2	7091.6	6491.9	5792.5	5024.2	4236.3	3377.9	2762.0	2457.2	2390.0	2375.3
17.5°	7286.5	7017.8	6269.2	5396.1	4354.2	3281.3	2309.8	1918.3	1919.9	2028.1	2041.2
20°	7252.1	6908.1	5998.9	4903.0	3551.5	2268.9	1585.8	1518.6	1765.9	2036.3	2069.1
22.5°	7173.5	6762.3	5692.6	4328.0	2632.5	1494.0	1227.0	1300.7	1620.1	1951.1	1988.7
25°	7073.6	6585.4	5330.5	3661.3	1743.0	1068.1	1028.7	1118.9	1335.1	1556.3	1577.6
27.5°	6937.6	6375.8	4924.4	2897.9	1131.9	879.6	905.9	966.5	1055.0	1153.2	1163.1
30°	6762.3	6125.1	4490.2	2113.2	855.2	791.2	829.0	861.6	899.3	955.0	960.0
32.5°	6560.8	5884.2	4044.6	1459.6	758.5	745.3	774.8	791.2	820.7	855.2	858.3
35°	6392.1	5654.9	3582.6	1032.1	717.5	710.9	730.6	737.2	765.1	802.7	806.0
37.5°	6295.4	5468.2	3105.9	832.2	689.7	679.8	691.3	691.3	730.6	786.3	794.6
40°	6302.0	5364.9	2629.3	751.9	666.7	653.6	655.2	655.2	706.1	766.7	771.6
42.5°	6480.5	5391.2	2206.6	720.8	648.7	633.9	625.7	630.7	673.2	712.6	715.8
45°	6899.9	5576.3	1810.2	701.1	630.7	625.7	607.8	606.2	622.4	640.5	640.5
47.5°	7587.9	5941.6	1541.5	688.0	615.9	614.2	593.1	571.8	570.2	576.7	576.7
50°	8706.8	6570.7	1361.3	673.2	606.2	593.1	568.4	535.7	524.2	529.2	529.2
52.5°	10384.3	7692.8	1292.5	653.6	584.9	563.6	535.7	502.9	493.1	494.7	494.7
55°	12584.4	9416.1	1282.7	630.7	561.9	527.5	504.6	479.9	468.5	471.8	471.8
57.5°	15272.6	11799.7	1457.9	594.7	530.8	491.4	478.3	461.9	453.8	458.7	457.0
60°	18540.6	14918.7	2162.3	557.0	499.7	458.7	458.7	445.6	439.0	443.9	442.3
62.5°	22305.2	18501.3	3040.4	529.2	466.9	432.4	439.0	432.4	425.9	429.2	427.5
65°	25643.7	20835.7	2847.1	507.8	434.1	407.9	419.3	416.1	411.2	414.4	412.8
67.5°	25740.4	19970.7	1598.8	484.9	402.9	383.3	399.7	398.0	394.8	398.0	396.4
70°	22971.9	16863.2	901.0	442.3	370.2	353.9	376.7	375.1	371.8	378.4	376.7
72.5°	18404.7	12237.0	658.5	389.8	337.5	322.8	349.0	347.3	347.3	357.2	352.3
75°	10590.7	6297.0	525.9	334.3	303.0	291.6	314.5	316.2	319.5	332.5	322.8
77.5°	3019.2	1962.6	429.2	283.4	260.5	255.5	278.5	281.8	283.4	298.2	285.0
80°	1122.1	904.2	353.9	237.5	212.9	214.5	235.9	240.8	242.4	257.2	240.8
82.5°	715.8	596.3	286.7	183.4	167.0	165.4	191.6	198.2	198.2	199.8	190.0
85°	417.7	357.2	216.3	132.6	118.0	113.1	142.5	153.9	149.0	145.8	139.2
87.5°	280.1	245.8	132.6	73.8	63.9	60.6	83.6	91.8	88.5	83.6	78.6
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)