

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: P323764

Luminaire Tested: **GAN-SA0B-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323764
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-SA0B-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 800mA 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: 38392 lumens
Efficiency: N/A
Efficacy: 91.6 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): 419
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

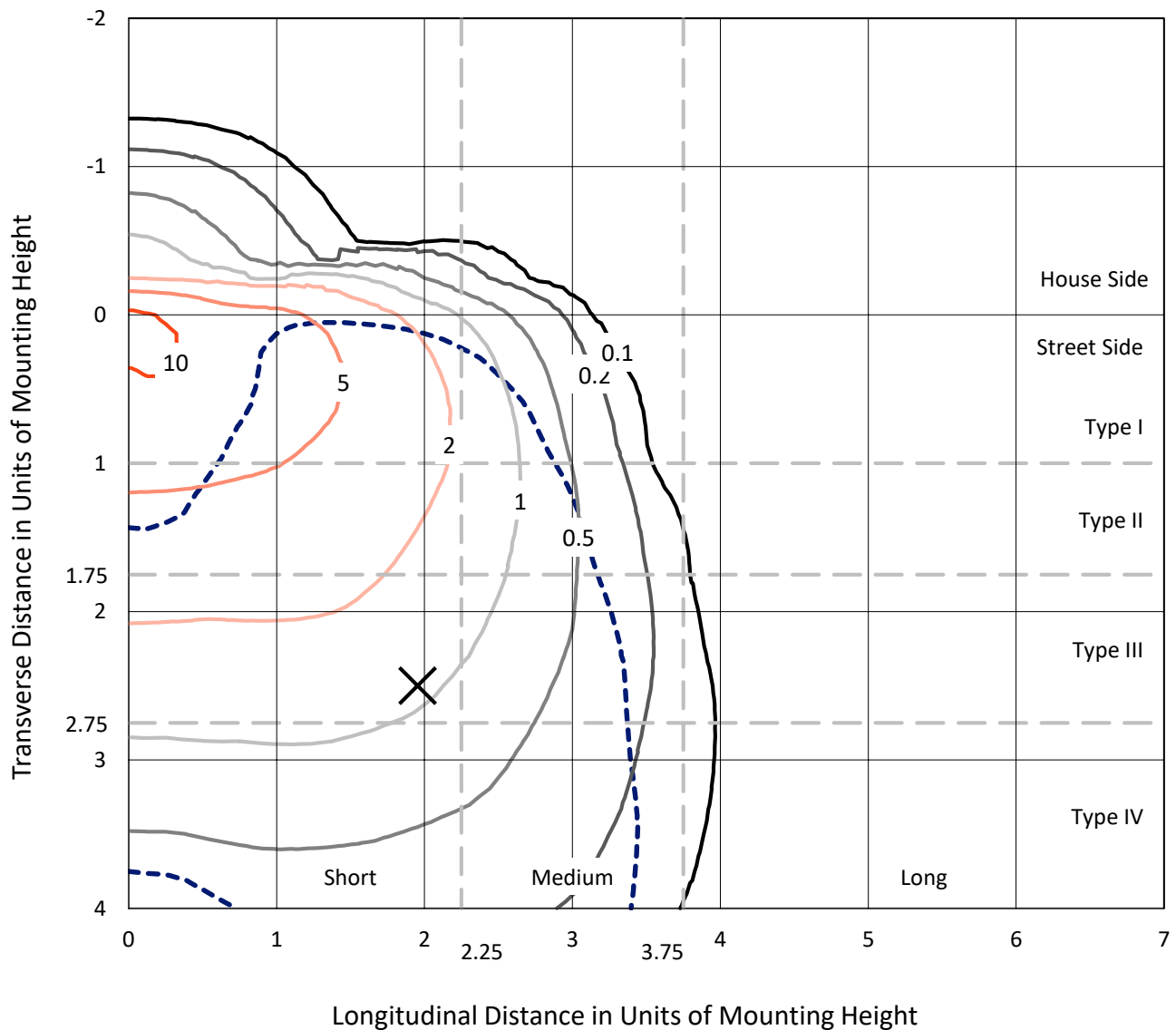


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Iso-Footcandle Lines of Horizontal Illumination

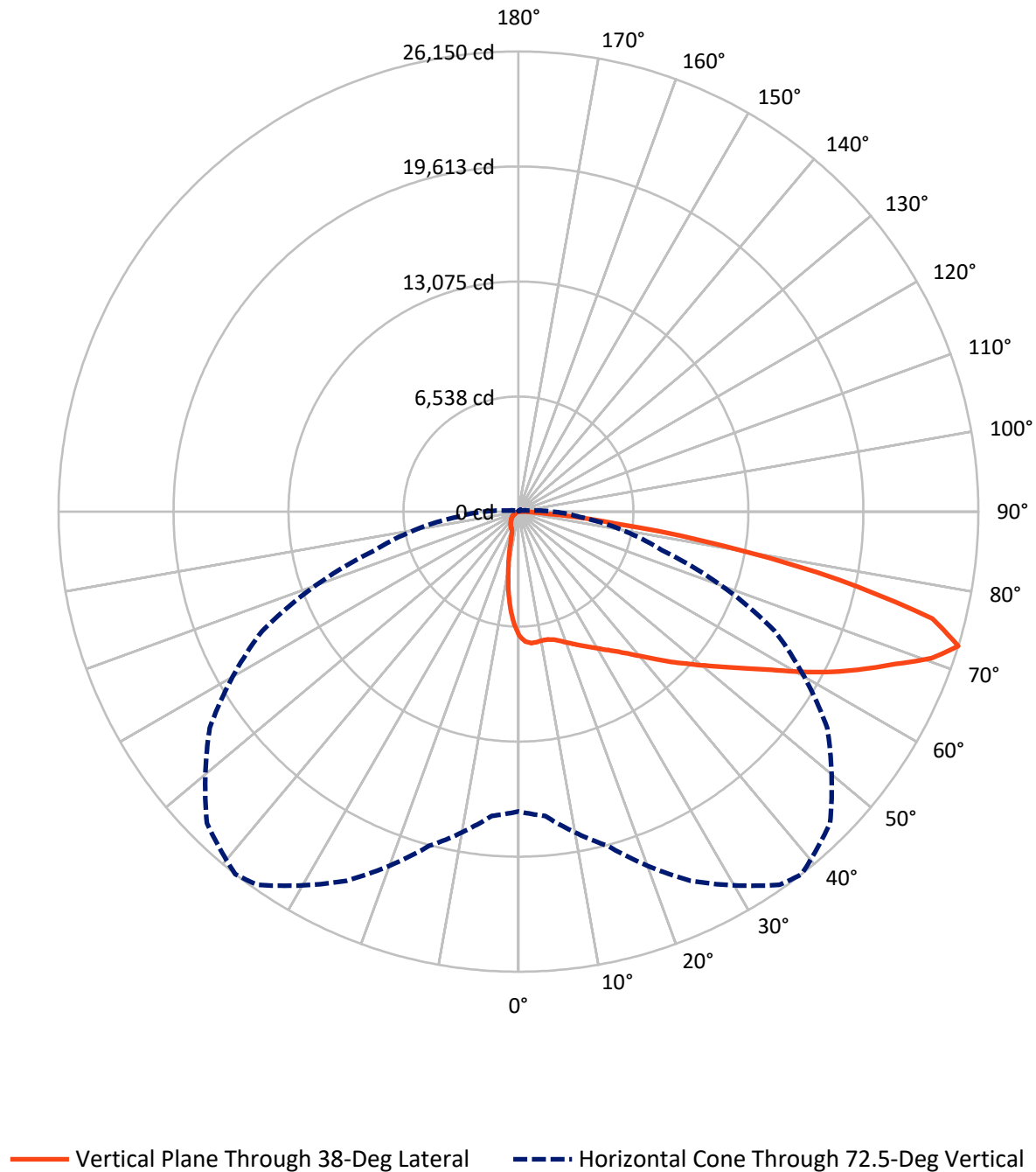
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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	3230.8	0.0	3230.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	35161.2	0.0	35161.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	38392.0	0.0	38392.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	601.7	1.6
10°-20°	1471.2	3.8
20°-30°	2339.9	6.1
30°-40°	3517.8	9.2
40°-50°	5366.7	14.0
50°-60°	7584.9	19.8
60°-70°	9514.0	24.8
70°-80°	7113.8	18.5
80°-90°	882.1	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°	38392.0	100.0
0°-180°	38392.0	100.0

Coefficient of Utilization



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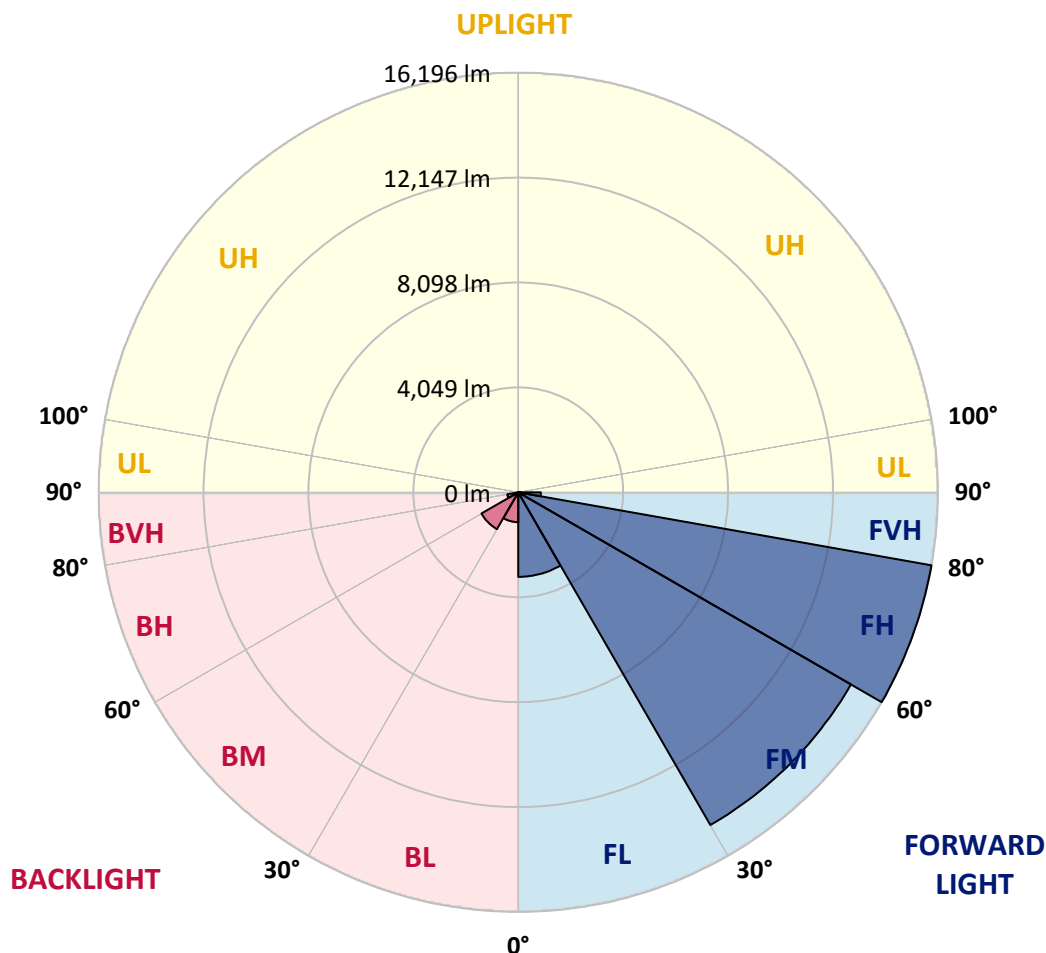
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3262.4	8.5			
FM	(30°-60°)	14828.7	38.6			
FH	(60°-80°)	16196.2	42.2			G5
FVH	(80°-90°)	873.9	2.3			G5
BL	(0°-30°)	1150.4	3.0	B3/2500		
BM	(30°-60°)	1640.7	4.3	B2/2500		
BH	(60°-80°)	431.6	1.1	B1/500		G1/500
BVH	(80°-90°)	8.2	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°	7060.2	7060.2	7060.2	7060.2	7060.2	7060.2	7060.2	7060.2	7060.2	7060.2	7060.2
2.5°	7493.8	7495.4	7477.9	7449.2	7412.5	7393.4	7361.5	7310.5	7256.3	7159.0	7053.8
5°	7646.9	7646.9	7624.6	7586.3	7527.3	7509.8	7449.2	7367.9	7256.3	7098.4	6921.4
7.5°	7631.0	7634.2	7603.9	7564.0	7505.0	7489.1	7415.7	7324.8	7186.1	6994.8	6768.4
10°	7548.1	7556.0	7532.1	7513.0	7458.8	7441.2	7372.7	7281.8	7143.1	6939.0	6679.1
12.5°	7463.6	7471.5	7479.5	7497.0	7463.6	7457.2	7403.0	7326.4	7194.1	6982.0	6688.7
15°	7409.3	7425.3	7482.7	7551.2	7559.2	7552.8	7517.8	7446.0	7312.1	7092.1	6757.2
17.5°	7409.3	7434.9	7554.4	7685.2	7731.4	7736.2	7705.9	7605.5	7446.0	7210.0	6821.0
20°	7471.5	7506.6	7693.2	7878.1	7954.6	7954.6	7895.6	7755.3	7568.8	7316.9	6864.0
22.5°	7631.0	7677.2	7911.6	8125.2	8206.6	8189.0	8109.3	7905.2	7696.3	7438.0	6918.3
25°	7945.1	7980.2	8224.1	8439.3	8488.8	8448.9	8348.5	8087.0	7859.0	7602.3	7017.1
27.5°	8350.1	8354.8	8606.8	8788.5	8758.2	8731.1	8605.2	8315.0	8093.4	7836.7	7187.7
30°	8794.9	8794.9	9016.5	9155.3	9062.8	9040.5	8914.5	8590.8	8393.1	8155.5	7430.1
32.5°	9225.4	9244.5	9424.7	9512.4	9408.8	9386.4	9263.7	8940.0	8791.7	8641.8	7808.0
35°	9641.6	9655.9	9826.5	9874.3	9775.5	9781.9	9694.2	9419.9	9364.1	9345.0	8377.2
37.5°	10044.9	10048.1	10221.9	10252.2	10202.8	10257.0	10265.0	10022.6	10126.3	10280.9	9179.2
40°	10413.3	10416.4	10588.6	10666.8	10751.3	10821.4	10883.6	10754.5	11097.3	11456.0	10134.2
42.5°	10708.2	10741.7	10960.2	11108.4	11331.7	11465.6	11634.6	11628.2	12253.2	12792.2	11288.6
45°	10968.1	11025.5	11330.1	11590.0	11972.6	12186.3	12451.0	12658.2	13554.3	14279.8	12457.3
47.5°	11310.9	11365.1	11712.7	12138.4	12648.7	12929.3	13367.8	13815.8	14984.5	15740.3	13598.9
50°	11794.0	11770.1	12112.9	12723.6	13378.9	13747.2	14372.2	15043.5	16403.6	17012.6	14270.2
52.5°	12309.0	12299.5	12553.0	13359.8	14239.9	14670.4	15496.3	16312.7	17760.4	17889.6	14577.9
55°	12946.8	12878.3	13091.9	14085.2	15261.9	15724.3	16696.9	17569.1	18841.4	18383.8	14732.6
57.5°	13614.9	13501.7	13705.8	14893.6	16414.7	16961.6	18026.7	18793.6	19560.5	18721.9	14731.0
60°	14305.3	14171.3	14413.7	15904.5	17846.5	18479.5	19468.1	19621.1	20231.8	18892.5	14622.6
62.5°	14882.5	14802.7	15163.1	16985.5	19445.7	20067.6	20557.1	20373.7	20797.8	19024.8	14369.1
65°	15493.1	15497.9	16079.9	18246.7	21145.4	21564.7	21606.2	21349.5	21271.4	18997.7	13511.2
67.5°	16319.1	16395.6	17366.6	19959.1	22798.8	23122.5	23119.3	22406.6	21617.4	17919.9	11609.1
70°	17192.8	17373.0	18849.4	21918.7	24603.7	24932.2	24763.2	23079.5	20354.6	14490.2	8216.1
72.5°	17046.1	17358.6	19673.7	23154.4	25900.0	26150.3	25051.8	21426.0	16087.9	8421.8	3498.2
75°	13150.9	13512.8	18039.4	21929.9	24540.0	24315.1	21524.9	16673.0	8791.7	2350.2	787.7
77.5°	6947.0	7139.9	11916.8	16706.5	19134.8	18664.5	15163.1	9249.3	2680.2	582.0	354.0
80°	3638.5	3683.1	5193.1	9478.9	11810.0	11813.2	8986.2	4062.6	1104.9	298.2	237.6
82.5°	1948.4	1986.7	2744.0	4379.9	6188.0	5609.2	3440.8	2235.4	642.6	169.0	228.0
85°	468.8	476.7	1556.2	2001.0	2433.1	1737.9	1022.0	1876.7	173.8	98.9	185.0
87.5°	180.2	183.4	577.2	865.8	620.2	401.8	478.3	700.0	22.3	38.3	28.7
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°	7060.2	7060.2	7060.2	7060.2	7060.2	7060.2	7060.2	7060.2	7060.2	7060.2	7060.2
2.5°	6990.0	6948.6	6846.5	6717.4	6602.6	6519.6	6395.3	6314.0	6259.8	6258.2	6237.4
5°	6813.0	6728.5	6508.5	6247.0	6009.4	5795.8	5543.9	5344.5	5196.3	5172.4	5121.3
7.5°	6623.3	6484.6	6146.6	5738.4	5339.8	4934.8	4464.4	4172.6	3922.3	3802.7	3790.0
10°	6506.9	6312.4	5832.4	5242.5	4617.5	3959.0	3343.5	2917.8	2610.1	2522.4	2457.0
12.5°	6483.0	6226.3	5590.1	4776.9	3884.0	3013.5	2332.7	1879.8	1634.3	1556.2	1535.4
15°	6506.9	6186.4	5386.0	4316.1	3141.0	2138.1	1565.7	1302.7	1210.2	1187.9	1186.3
17.5°	6521.2	6138.6	5154.8	3804.3	2420.4	1527.5	1199.0	1122.5	1108.1	1106.5	1109.7
20°	6519.6	6065.2	4879.0	3233.5	1800.1	1200.6	1084.2	1068.3	1065.1	1066.7	1065.1
22.5°	6508.5	5979.1	4576.0	2645.2	1360.1	1073.1	1034.8	1025.2	1023.6	1023.6	1023.6
25°	6529.2	5910.6	4242.8	2082.3	1120.9	1014.1	990.1	982.2	980.6	980.6	977.4
27.5°	6604.2	5872.3	3877.7	1602.4	1012.5	961.4	942.3	940.7	935.9	934.3	937.5
30°	6725.3	5872.3	3477.5	1246.8	947.1	907.2	892.9	889.7	888.1	886.5	888.1
32.5°	6939.0	5917.0	3040.6	1036.4	884.9	846.6	837.1	841.9	837.1	837.1	837.1
35°	7324.8	6050.9	2583.0	904.0	819.5	787.7	778.1	784.5	781.3	781.3	779.7
37.5°	7887.7	6299.6	2122.2	824.3	762.1	728.7	715.9	725.5	722.3	722.3	720.7
40°	8573.3	6661.6	1683.7	763.7	706.3	671.3	660.1	664.9	656.9	656.9	660.1
42.5°	9419.9	7120.8	1301.1	704.7	650.5	617.0	610.7	605.9	591.5	583.6	585.2
45°	10360.6	7599.1	1014.1	647.3	597.9	570.8	561.2	548.5	524.6	508.6	510.2
47.5°	11200.9	7967.4	824.3	591.5	550.1	529.4	515.0	491.1	456.0	436.9	438.5
50°	11642.6	8023.2	701.6	535.7	505.4	484.7	464.0	427.3	385.9	365.1	363.5
52.5°	11755.8	7761.7	610.7	484.7	460.8	436.9	409.8	360.3	314.1	291.8	288.6
55°	11797.2	7363.1	529.4	436.9	413.0	385.9	350.8	295.0	251.9	229.6	228.0
57.5°	11660.1	6768.4	465.6	393.8	365.1	331.6	288.6	236.0	194.5	177.0	177.0
60°	11355.6	5963.2	416.1	347.6	315.7	277.4	232.8	183.4	145.1	130.7	130.7
62.5°	10748.1	4920.4	369.9	299.8	269.5	229.6	188.1	138.7	102.0	94.1	95.7
65°	9601.7	3732.6	323.7	256.7	229.6	189.7	146.7	98.9	68.6	68.6	71.7
67.5°	7830.3	2592.6	275.8	218.4	197.7	154.7	111.6	68.6	47.8	54.2	60.6
70°	5183.5	1454.1	236.0	180.2	169.0	122.8	82.9	46.2	38.3	51.0	62.2
72.5°	1956.4	566.0	197.7	145.1	146.7	94.1	59.0	35.1	35.1	55.8	73.3
75°	545.3	277.4	141.9	106.8	114.8	68.6	43.0	30.3	33.5	63.8	86.1
77.5°	320.5	204.1	92.5	62.2	78.1	47.8	28.7	23.9	28.7	54.2	82.9
80°	258.3	108.4	54.2	31.9	43.0	27.1	19.1	14.3	8.0	20.7	43.0
82.5°	258.3	65.4	25.5	22.3	22.3	14.3	9.6	6.4	1.6	0.0	11.2
85°	173.8	27.1	15.9	14.3	11.2	4.8	3.2	1.6	0.0	0.0	0.0
87.5°	28.7	11.2	6.4	3.2	1.6	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)