

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: P321762

Luminaire Tested: **GAN-SA8B-830-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27991 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

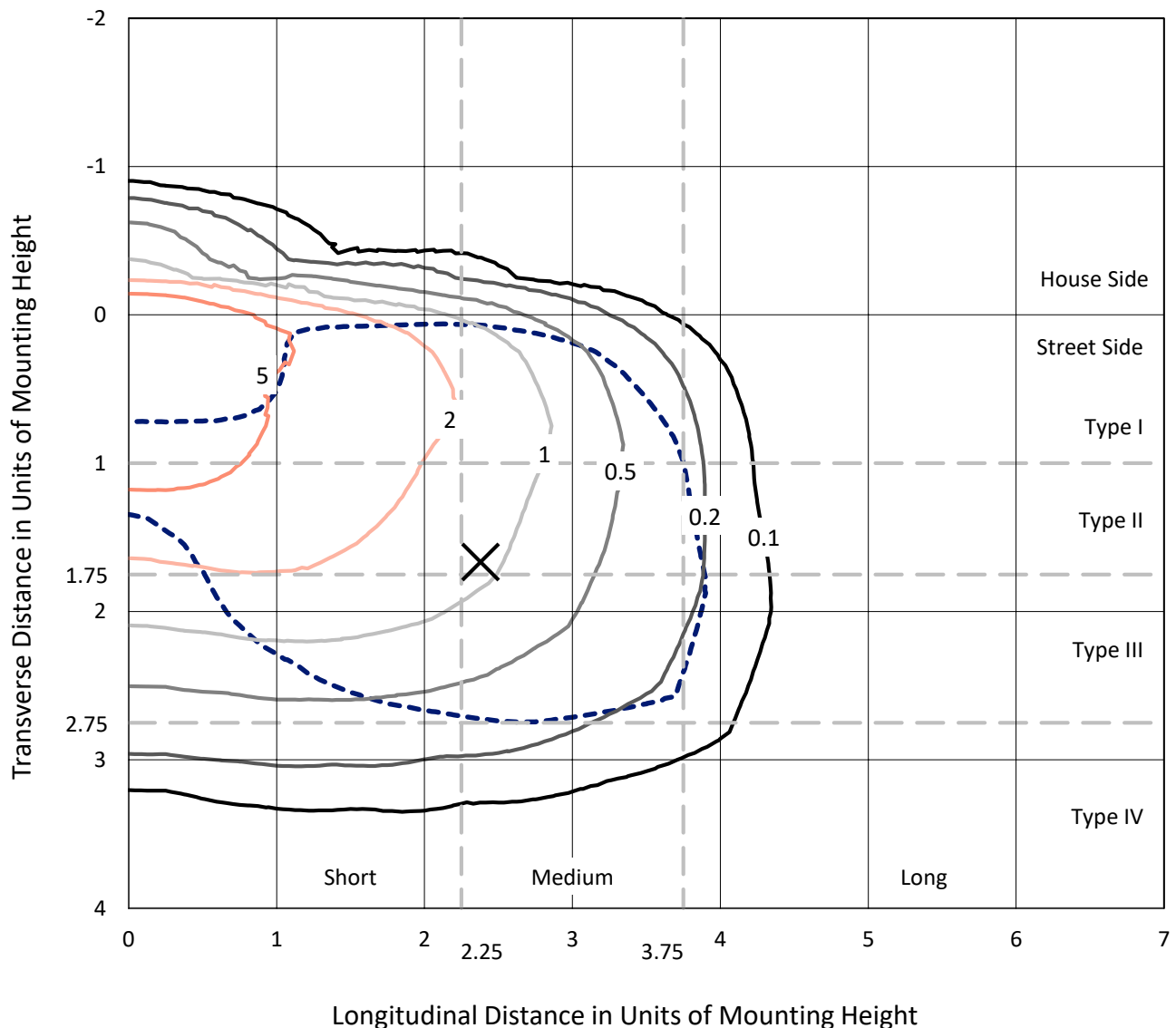
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

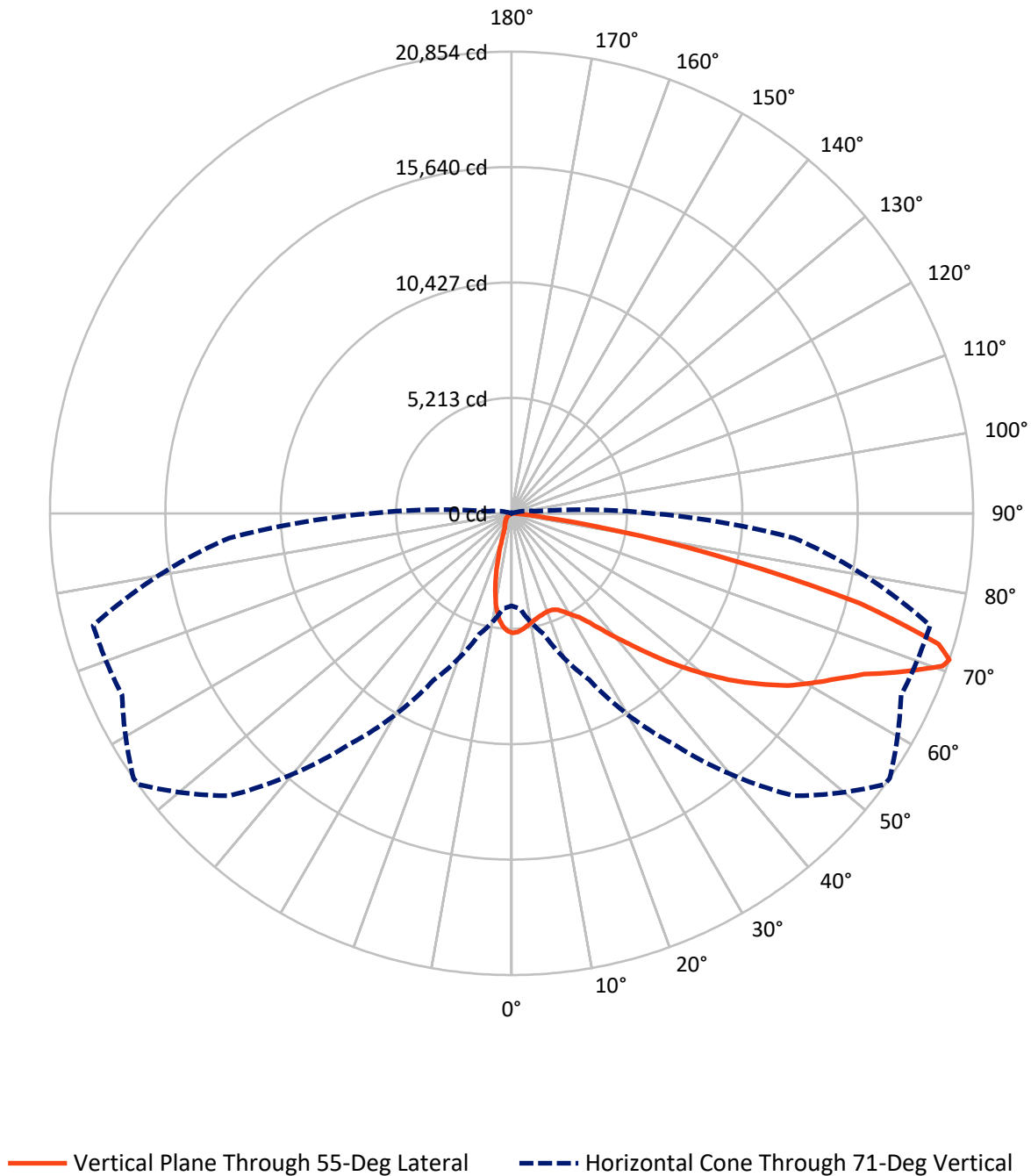
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	2216.1	0.0	2216.1
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	25774.9	0.0	25774.9
	% Fixture	92.1	0.0	92.1
Total	Lumens	27991.0	0.0	27991.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.3	1.6
10°-20°	1039.1	3.7
20°-30°	1669.8	6.0
30°-40°	2837.2	10.1
40°-50°	4403.6	15.7
50°-60°	5920.5	21.2
60°-70°	7242.8	25.9
70°-80°	4234.7	15.1
80°-90°	183.0	0.7
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°	27991.0	100.0
0°-180°	27991.0	100.0

Coefficient of Utilization



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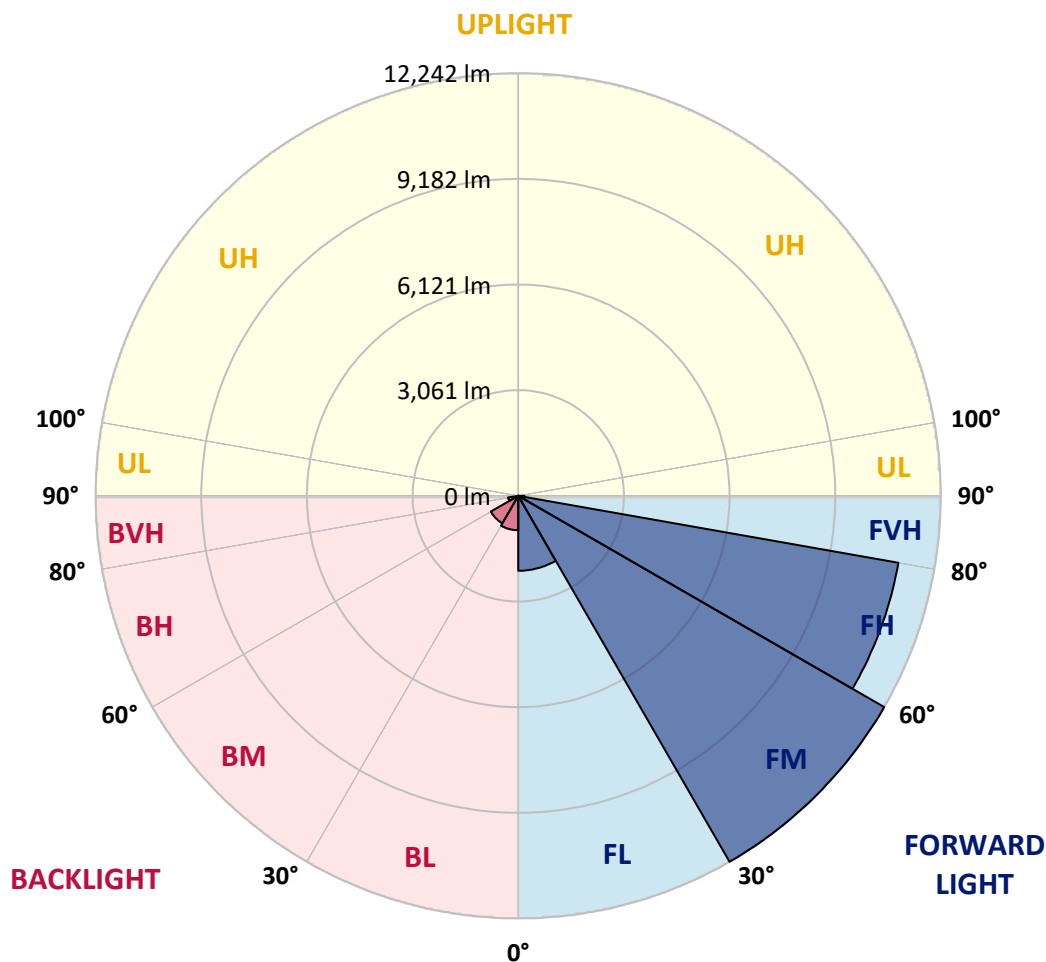
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2171.7	7.8			
FM	(30°-60°)	12242.5	43.7			
FH	(60°-80°)	11180.5	39.9			G4/12000
FVH	(80°-90°)	180.2	0.6			G2/225
BL	(0°-30°)	997.5	3.6	B2/1000		
BM	(30°-60°)	918.8	3.3	B1/1000		
BH	(60°-80°)	296.9	1.1	B1/500		G1/500
BVH	(80°-90°)	2.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5398.2	5398.2	5398.2	5398.2	5398.2	5398.2	5398.2	5398.2	5398.2	5398.2	5398.2
2.5°	5239.8	5246.1	5268.7	5278.8	5302.6	5342.9	5363.0	5364.2	5396.9	5409.5	5419.5
5°	4869.0	4906.7	4944.4	4984.7	5057.6	5154.3	5249.9	5258.7	5364.2	5442.2	5483.6
7.5°	4549.8	4583.7	4629.0	4693.1	4796.1	4948.2	5107.8	5126.7	5326.5	5503.7	5596.7
10°	4221.8	4249.4	4314.8	4409.0	4551.0	4754.7	4969.6	5001.0	5292.6	5586.7	5750.1
12.5°	3871.1	3887.4	3966.6	4102.4	4311.0	4569.9	4852.7	4894.2	5271.2	5682.2	5931.1
15°	3604.6	3612.2	3687.6	3828.4	4067.2	4404.0	4762.2	4812.5	5276.3	5796.6	6128.4
17.5°	3536.8	3540.5	3580.8	3677.5	3888.7	4255.7	4690.6	4752.1	5291.3	5908.4	6327.0
20°	3812.0	3785.6	3744.2	3729.1	3819.6	4166.5	4647.8	4717.0	5311.4	6007.7	6505.4
22.5°	4567.4	4489.5	4317.3	4087.3	3947.8	4172.7	4659.1	4728.3	5375.5	6129.7	6711.6
25°	5688.5	5580.4	5287.6	4835.1	4400.2	4353.7	4753.4	4823.8	5500.0	6275.4	6908.9
27.5°	6964.2	6857.4	6499.2	5853.1	5111.6	4711.9	4969.6	5034.9	5684.7	6404.9	7059.7
30°	8185.9	8155.7	7733.4	6999.4	6006.5	5292.6	5248.6	5303.9	5821.7	6482.8	7179.1
32.5°	9221.5	9173.7	8834.4	8120.5	7030.8	5990.1	5576.6	5593.0	5924.8	6583.4	7335.0
35°	10181.7	10122.7	9824.8	9149.9	8081.5	6842.3	6081.9	6058.0	6149.8	6785.7	7561.2
37.5°	11020.0	11074.1	10743.5	10101.3	9024.2	7728.4	6763.1	6691.5	6501.7	7115.0	7889.2
40°	11721.4	11721.4	11549.2	11013.8	10042.2	8644.6	7533.6	7439.3	7030.8	7622.8	8305.3
42.5°	11974.0	12028.0	12092.1	11789.2	10953.4	9597.3	8392.0	8293.9	7776.1	8343.0	8830.6
45°	11989.1	12074.5	12402.6	12401.3	11776.7	10543.7	9359.8	9313.2	8731.3	9268.0	9481.7
47.5°	11776.7	11883.5	12423.9	12730.6	12429.0	11424.8	10418.0	10360.2	9853.7	10401.7	10162.9
50°	11448.6	11566.8	12195.2	12860.1	12872.6	12191.4	11532.8	11446.1	11089.2	11697.5	10866.7
52.5°	10861.7	11090.4	11990.3	12890.2	13164.2	12853.8	12593.6	12555.9	12471.7	12945.5	11427.3
55°	9606.1	9860.0	11476.3	12900.3	13434.5	13440.7	13587.8	13597.8	13767.5	14111.9	11844.5
57.5°	9012.9	9156.1	10578.9	12948.1	13835.4	14106.9	14600.8	14678.7	14941.4	15219.2	12320.9
60°	8639.6	8809.3	10136.5	12882.7	14465.1	14980.4	15539.7	15566.1	15847.6	16361.7	12965.7
62.5°	8341.7	8508.9	9857.5	12631.3	15172.7	16031.1	16457.2	16459.7	16670.8	17722.8	13698.4
65°	7606.4	7747.2	9293.1	12348.5	15640.2	17070.5	17523.0	17506.6	17678.8	19158.1	14549.3
67.5°	6543.2	6651.2	8140.6	11276.4	15464.3	18015.7	19131.7	19077.7	18869.1	20398.7	14883.6
70°	5058.8	5097.8	6416.2	9397.5	13815.3	18378.9	20686.5	20658.8	19599.3	20176.2	13658.2
71°	4181.5	4309.7	5654.6	8293.9	12710.5	18043.3	20837.3	20853.6	19415.8	19570.4	12814.8
72.5°	2428.2	2537.6	4098.6	6369.7	10791.3	16643.2	20055.5	20173.7	18558.6	17800.7	10945.9
75°	520.3	556.8	1519.5	3083.0	5936.1	11664.8	15830.0	16251.1	15126.2	12109.7	6597.2
77.5°	362.0	390.9	651.0	1398.9	1961.9	5763.9	9833.6	10308.7	9036.7	4551.0	2111.5
80°	286.6	319.2	507.8	691.3	530.4	1858.9	4606.4	4896.7	3013.9	1015.5	355.7
82.5°	159.6	189.8	395.9	373.3	203.6	353.2	1289.5	1457.9	603.3	204.9	84.2
85°	46.5	56.6	255.1	271.5	86.7	67.9	219.9	272.7	114.4	54.0	37.7
87.5°	0.0	0.0	123.2	104.3	25.1	10.1	20.1	22.6	22.6	22.6	25.1
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°	5398.2	5398.2	5398.2	5398.2	5398.2	5398.2	5398.2	5398.2	5398.2	5398.2	5398.2
2.5°	5419.5	5428.3	5396.9	5355.4	5311.4	5257.4	5200.8	5156.8	5155.6	5134.2	5112.9
5°	5486.1	5481.1	5394.4	5262.4	5106.6	4944.4	4789.9	4615.1	4557.3	4485.7	4461.8
7.5°	5609.3	5574.1	5390.6	5101.5	4759.7	4420.3	4069.7	3716.5	3565.7	3429.9	3406.1
10°	5763.9	5697.3	5366.7	4860.2	4233.1	3607.2	3078.0	2597.9	2386.8	2224.6	2217.1
12.5°	5924.8	5823.0	5300.1	4495.7	3543.1	2663.3	2053.7	1581.1	1405.2	1292.0	1302.1
15°	6093.2	5941.1	5156.8	4004.3	2757.5	1807.3	1261.9	984.1	913.7	884.8	892.4
17.5°	6265.4	6022.8	4957.0	3412.3	1982.1	1166.4	873.5	795.6	795.6	801.9	804.4
20°	6415.0	6066.8	4662.9	2748.7	1343.6	849.6	764.2	752.9	759.1	769.2	770.4
22.5°	6563.3	6069.3	4279.6	2076.3	940.1	744.1	727.7	722.7	726.5	737.8	739.0
25°	6683.9	6039.2	3799.5	1476.8	750.3	701.3	693.8	691.3	693.8	707.6	707.6
27.5°	6732.9	5929.8	3213.8	1038.2	672.4	653.6	651.0	653.6	657.3	667.4	668.6
30°	6738.0	5738.8	2575.3	751.6	609.6	589.5	594.5	603.3	599.5	597.0	599.5
32.5°	6750.5	5517.6	1953.1	618.4	556.8	525.4	519.1	519.1	504.0	495.2	490.2
35°	6792.0	5257.4	1416.5	555.5	502.7	466.3	442.4	414.8	385.9	370.8	367.0
37.5°	6857.4	4984.7	1014.3	514.1	455.0	413.5	368.3	319.2	277.8	266.5	266.5
40°	6976.8	4703.1	750.3	481.4	417.3	365.7	297.9	233.8	196.1	189.8	189.8
42.5°	7165.3	4406.5	598.3	452.5	384.6	316.7	227.5	169.7	142.0	138.3	137.0
45°	7361.4	4079.7	522.8	424.8	349.4	260.2	168.4	125.7	109.3	105.6	105.6
47.5°	7557.4	3731.6	486.4	398.4	315.5	202.4	125.7	99.3	91.7	91.7	93.0
50°	7723.3	3368.4	460.0	369.5	271.5	153.3	99.3	84.2	81.7	86.7	88.0
52.5°	7764.8	3011.4	427.3	333.1	217.4	116.9	81.7	74.2	74.2	74.2	74.2
55°	7739.7	2734.9	384.6	287.8	160.9	93.0	70.4	65.4	64.1	64.1	64.1
57.5°	7825.1	2571.5	307.9	223.7	115.6	75.4	61.6	57.8	55.3	54.0	54.0
60°	7997.3	2464.7	219.9	160.9	86.7	62.8	52.8	49.0	45.2	42.7	42.7
62.5°	8226.1	2371.7	163.4	119.4	66.6	50.3	44.0	40.2	35.2	32.7	32.7
65°	8402.0	2205.8	124.4	89.2	50.3	40.2	33.9	32.7	25.1	22.6	21.4
67.5°	8133.1	1841.3	100.5	65.4	37.7	31.4	26.4	25.1	15.1	12.6	12.6
70°	6975.5	1282.0	80.4	47.8	27.7	25.1	21.4	16.3	11.3	10.1	10.1
71°	6325.7	1070.8	72.9	40.2	23.9	23.9	20.1	13.8	10.1	8.8	8.8
72.5°	5254.9	760.4	61.6	31.4	21.4	25.1	21.4	12.6	10.1	8.8	7.5
75°	3050.4	318.0	42.7	21.4	16.3	30.2	27.7	11.3	7.5	6.3	6.3
77.5°	917.5	116.9	23.9	13.8	12.6	26.4	31.4	10.1	3.8	1.3	1.3
80°	167.2	50.3	15.1	8.8	8.8	16.3	23.9	5.0	0.0	0.0	0.0
82.5°	59.1	25.1	8.8	5.0	3.8	7.5	11.3	0.0	0.0	0.0	0.0
85°	33.9	17.6	5.0	2.5	0.0	1.3	2.5	0.0	0.0	0.0	0.0
87.5°	22.6	5.0	0.0	0.0	0.0	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)