

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: P321771

Luminaire Tested: **GAN-SA7C-830-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321771
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-SA7C-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA 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: 30576 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

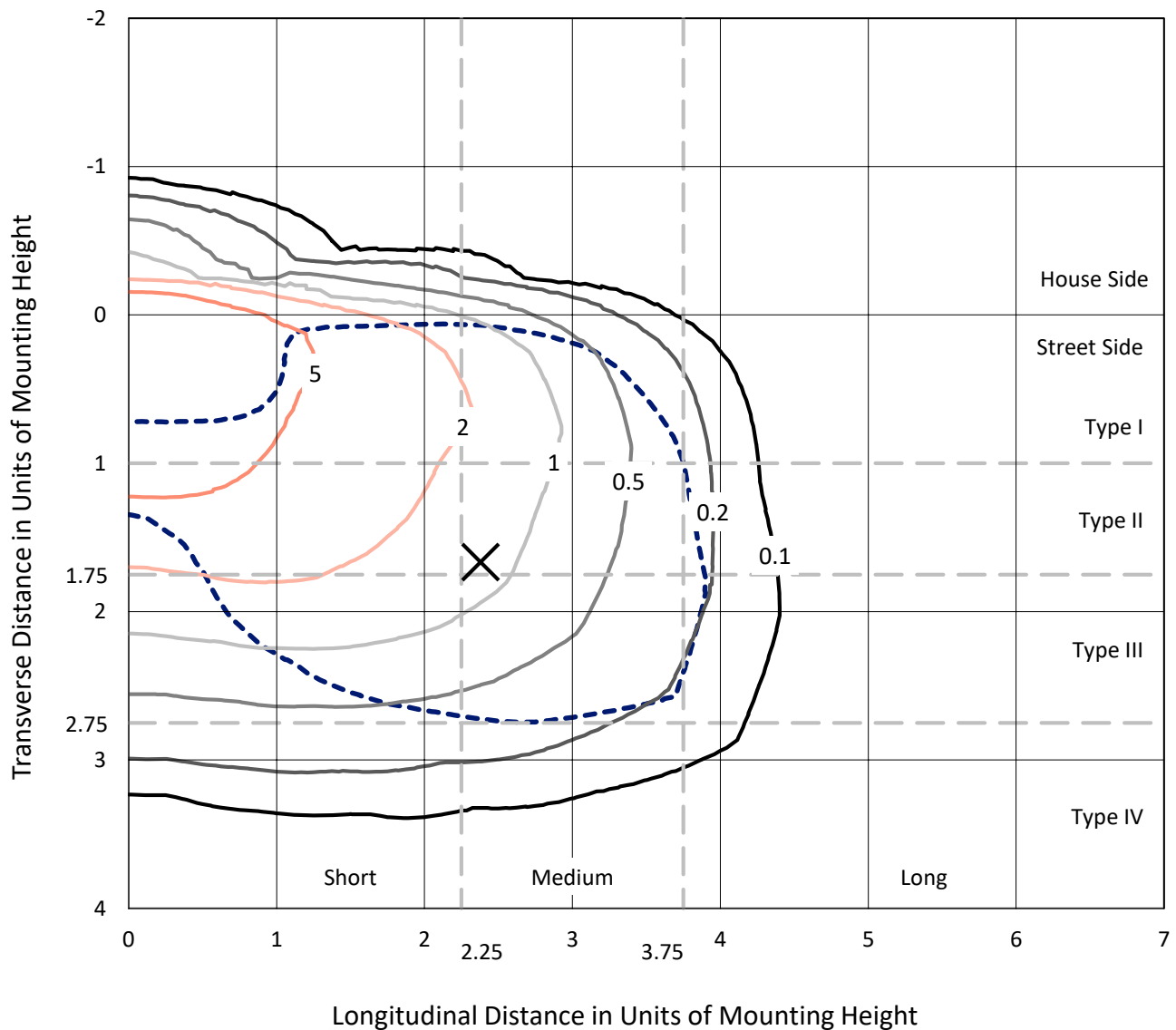
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321771
 CATALOG NUMBER: GAN-SA7C-830-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

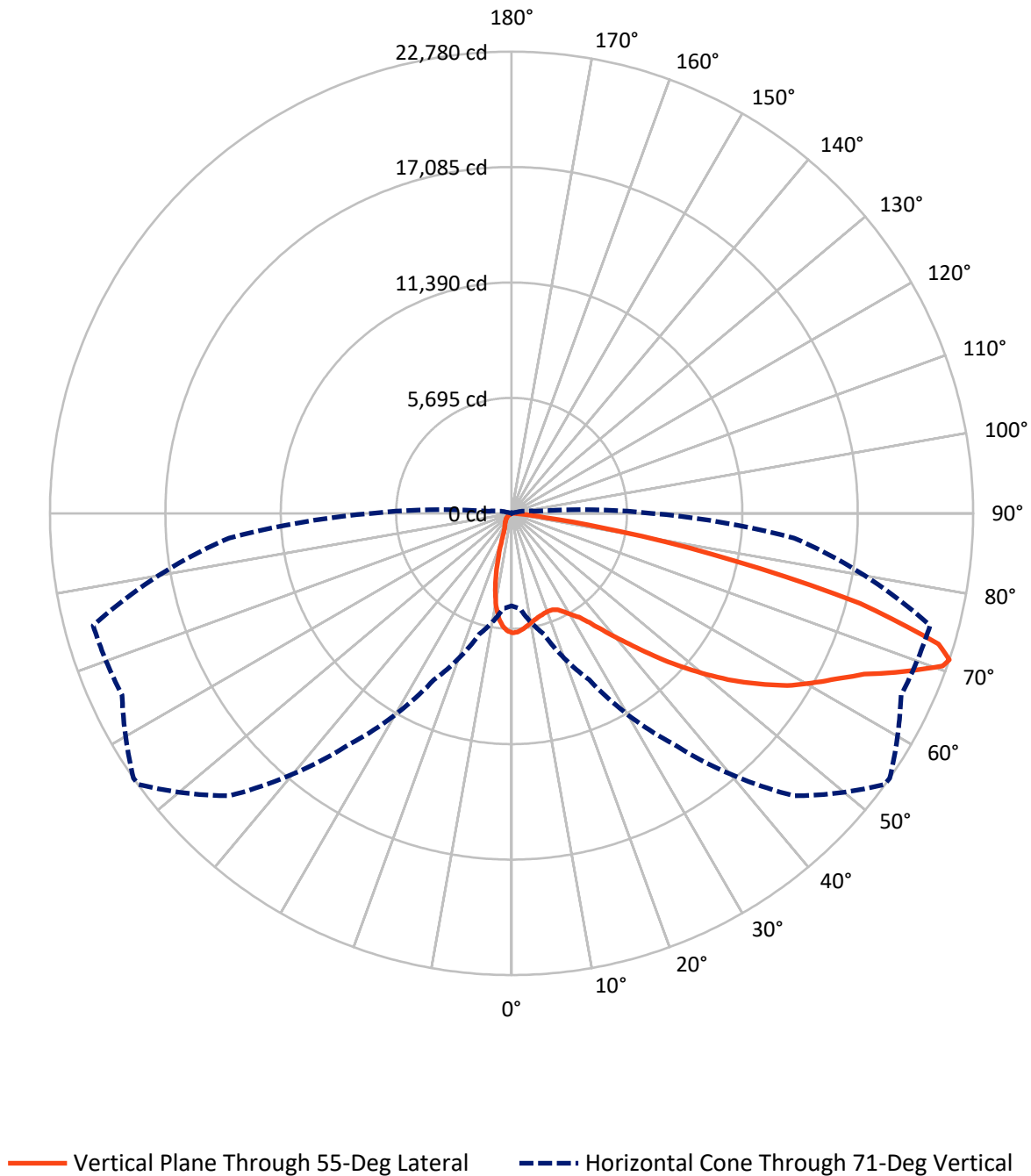
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P321771
CATALOG NUMBER: GAN-SA7C-830-U-T3R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P321771

CATALOG NUMBER: GAN-SA7C-830-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2420.8	0.0	2420.8
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	28155.2	0.0	28155.2
	% Fixture	92.1	0.0	92.1
Total	Lumens	30576.0	0.0	30576.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.8	1.6
10°-20°	1135.0	3.7
20°-30°	1824.1	6.0
30°-40°	3099.2	10.1
40°-50°	4810.3	15.7
50°-60°	6467.3	21.2
60°-70°	7911.6	25.9
70°-80°	4625.8	15.1
80°-90°	200.0	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°	30576.0	100.0
0°-180°	30576.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321771

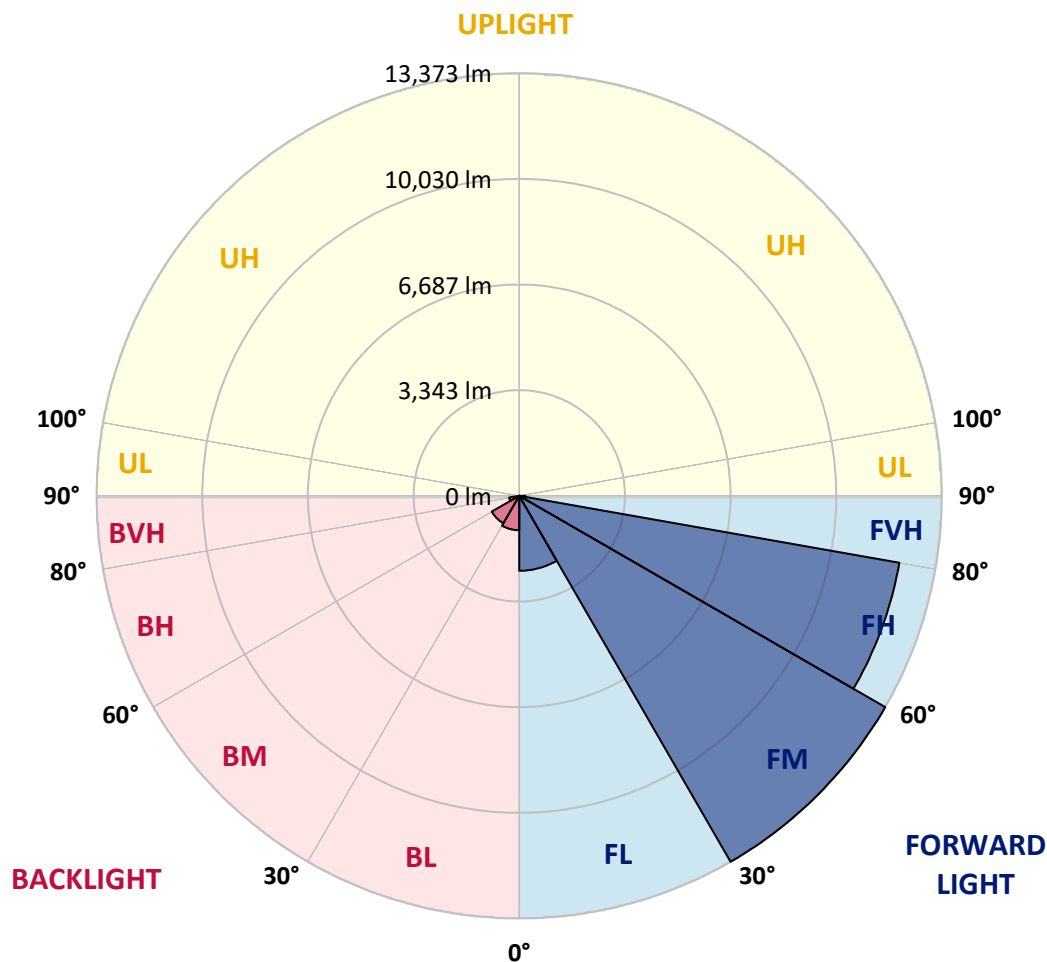
CATALOG NUMBER: GAN-SA7C-830-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2372.3	7.8			
FM	(30°-60°)	13373.1	43.7			
FH	(60°-80°)	12213.1	39.9			G5
FVH	(80°-90°)	196.8	0.6			G2/225
BL	(0°-30°)	1089.6	3.6	B3/2500		
BM	(30°-60°)	1003.7	3.3	B2/2500		
BH	(60°-80°)	324.3	1.1	B1/500		G1/500
BVH	(80°-90°)	3.2	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 III Medium



REPORT NUMBER: P321771

CATALOG NUMBER: GAN-SA7C-830-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5896.7	5896.7	5896.7	5896.7	5896.7	5896.7	5896.7	5896.7	5896.7	5896.7	5896.7
2.5°	5723.7	5730.6	5755.3	5766.3	5792.3	5836.3	5858.2	5859.6	5895.3	5909.0	5920.0
5°	5318.7	5359.9	5401.1	5445.0	5524.6	5630.3	5734.7	5744.3	5859.6	5944.7	5990.0
7.5°	4970.0	5007.0	5056.5	5126.5	5239.1	5405.2	5579.5	5600.1	5818.4	6012.0	6113.6
10°	4611.6	4641.8	4713.2	4816.2	4971.3	5193.8	5428.5	5462.8	5781.4	6102.6	6281.1
12.5°	4228.6	4246.4	4332.9	4481.2	4709.1	4991.9	5300.8	5346.2	5758.0	6207.0	6478.8
15°	3937.5	3945.8	4028.1	4181.9	4442.8	4810.7	5202.0	5256.9	5763.5	6331.9	6694.4
17.5°	3863.4	3867.5	3911.4	4017.2	4247.8	4648.7	5123.7	5191.0	5780.0	6454.1	6911.3
20°	4164.1	4135.2	4089.9	4073.5	4172.3	4551.2	5077.1	5152.6	5802.0	6562.6	7106.2
22.5°	4989.2	4904.1	4716.0	4464.7	4312.3	4558.1	5089.4	5164.9	5872.0	6695.7	7331.4
25°	6213.8	6095.8	5775.9	5281.6	4806.6	4755.8	5192.4	5269.3	6007.9	6855.0	7546.9
27.5°	7607.3	7490.7	7099.4	6393.7	5583.7	5147.1	5428.5	5499.9	6209.7	6996.4	7711.7
30°	8941.8	8908.9	8447.6	7645.8	6561.2	5781.4	5733.3	5793.7	6359.4	7081.5	7842.1
32.5°	10073.1	10020.9	9650.3	8870.4	7680.1	6543.3	6091.6	6109.5	6471.9	7191.4	8012.4
35°	11122.0	11057.5	10732.1	9994.9	8827.9	7474.2	6643.6	6617.5	6717.7	7412.4	8259.5
37.5°	12037.8	12096.8	11735.7	11034.2	9857.6	8442.1	7387.7	7309.4	7102.1	7772.1	8617.8
40°	12803.9	12803.9	12615.8	12030.9	10969.6	9442.9	8229.3	8126.3	7680.1	8326.8	9072.3
42.5°	13079.8	13138.8	13208.9	12878.0	11965.0	10483.6	9167.0	9059.9	8494.3	9113.4	9646.1
45°	13096.3	13189.6	13548.0	13546.6	12864.3	11517.4	10224.1	10173.3	9537.7	10123.9	10357.3
47.5°	12864.3	12981.0	13571.3	13906.3	13576.8	12479.8	11380.1	11317.0	10763.7	11362.3	11101.4
50°	12505.9	12635.0	13321.4	14047.7	14061.4	13317.3	12597.9	12503.2	12113.3	12777.8	11870.3
52.5°	11864.8	12114.6	13097.7	14080.7	14380.0	14040.9	13756.7	13715.5	13623.5	14141.1	12482.6
55°	10493.2	10770.6	12536.1	14091.7	14675.1	14682.0	14842.6	14853.6	15039.0	15415.1	12938.4
57.5°	9845.2	10001.7	11555.9	14143.8	15113.1	15409.7	15949.2	16034.3	16321.3	16624.7	13458.7
60°	9437.5	9622.8	11072.6	14072.4	15800.9	16363.8	16974.8	17003.6	17311.1	17872.7	14163.0
62.5°	9112.1	9294.7	10767.8	13797.8	16573.9	17511.6	17977.0	17979.8	18210.4	19359.5	14963.5
65°	8308.9	8462.7	10151.4	13488.9	17084.6	18647.0	19141.3	19123.4	19311.5	20927.4	15892.9
67.5°	7147.4	7265.5	8892.4	12317.8	16892.4	19679.4	20898.6	20839.6	20611.6	22282.5	16258.1
70°	5526.0	5568.6	7008.8	10265.3	15091.1	20076.2	22596.9	22566.7	21409.3	22039.5	14919.5
71°	4567.7	4707.7	6176.8	9059.9	13884.3	19709.6	22761.6	22779.5	21208.9	21377.7	13998.3
72.5°	2652.5	2771.9	4477.1	6958.0	11787.9	18180.2	21907.7	22036.7	20272.5	19444.7	11956.8
75°	568.4	608.2	1659.9	3367.8	6484.3	12742.1	17291.9	17751.9	16523.1	13228.1	7206.5
77.5°	395.4	427.0	711.2	1528.1	2143.1	6296.2	10741.7	11260.7	9871.3	4971.3	2306.5
80°	313.0	348.7	554.7	755.1	579.4	2030.5	5031.8	5348.9	3292.3	1109.3	388.5
82.5°	174.4	207.3	432.5	407.8	222.4	385.8	1408.6	1592.6	659.0	223.8	92.0
85°	50.8	61.8	278.7	296.6	94.7	74.1	240.3	297.9	124.9	59.0	41.2
87.5°	0.0	0.0	134.5	114.0	27.5	11.0	22.0	24.7	24.7	24.7	27.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P321771

CATALOG NUMBER: GAN-SA7C-830-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5896.7	5896.7	5896.7	5896.7	5896.7	5896.7	5896.7	5896.7	5896.7	5896.7	5896.7
2.5°	5920.0	5929.6	5895.3	5850.0	5802.0	5742.9	5681.1	5633.1	5631.7	5608.4	5585.0
5°	5992.8	5987.3	5892.6	5748.4	5578.2	5401.1	5232.2	5041.4	4978.2	4900.0	4873.9
7.5°	6127.3	6088.9	5888.5	5572.7	5199.2	4828.6	4445.5	4059.7	3895.0	3746.7	3720.6
10°	6296.2	6223.4	5862.4	5309.1	4624.0	3940.3	3362.3	2837.8	2607.2	2430.1	2421.8
12.5°	6471.9	6360.7	5789.6	4910.9	3870.3	2909.2	2243.4	1727.1	1534.9	1411.4	1422.3
15°	6655.9	6489.8	5633.1	4374.1	3012.2	1974.3	1378.4	1075.0	998.1	966.5	974.8
17.5°	6844.0	6579.0	5414.8	3727.5	2165.1	1274.1	954.2	869.1	869.1	875.9	878.7
20°	7007.4	6627.1	5093.5	3002.6	1467.7	928.1	834.7	822.4	829.2	840.2	841.6
22.5°	7169.4	6629.8	4674.8	2268.1	1026.9	812.8	794.9	789.4	793.5	805.9	807.3
25°	7301.2	6596.9	4150.3	1613.2	819.6	766.1	757.9	755.1	757.9	773.0	773.0
27.5°	7354.7	6477.4	3510.6	1134.0	734.5	713.9	711.2	713.9	718.0	729.0	730.4
30°	7360.2	6268.8	2813.1	821.0	665.9	643.9	649.4	659.0	654.9	652.1	654.9
32.5°	7374.0	6027.1	2133.5	675.5	608.2	573.9	567.0	567.0	550.5	540.9	535.4
35°	7419.3	5742.9	1547.3	606.8	549.2	509.4	483.3	453.1	421.5	405.0	400.9
37.5°	7490.7	5445.0	1107.9	561.5	497.0	451.7	402.3	348.7	303.4	291.1	291.1
40°	7621.1	5137.5	819.6	525.8	455.8	399.5	325.4	255.4	214.2	207.3	207.3
42.5°	7827.0	4813.5	653.5	494.3	420.1	346.0	248.5	185.3	155.1	151.0	149.6
45°	8041.2	4456.5	571.1	464.0	381.7	284.2	184.0	137.3	119.4	115.3	115.3
47.5°	8255.4	4076.2	531.3	435.2	344.6	221.0	137.3	108.5	100.2	100.2	101.6
50°	8436.6	3679.4	502.5	403.6	296.6	167.5	108.5	92.0	89.2	94.7	96.1
52.5°	8481.9	3289.5	466.8	363.8	237.5	127.7	89.2	81.0	81.0	81.0	81.0
55°	8454.4	2987.5	420.1	314.4	175.7	101.6	76.9	71.4	70.0	70.0	70.0
57.5°	8547.8	2809.0	336.4	244.4	126.3	82.4	67.3	63.2	60.4	59.0	59.0
60°	8735.9	2692.3	240.3	175.7	94.7	68.6	57.7	53.5	49.4	46.7	46.7
62.5°	8985.8	2590.7	178.5	130.4	72.8	54.9	48.1	43.9	38.4	35.7	35.7
65°	9178.0	2409.5	135.9	97.5	54.9	43.9	37.1	35.7	27.5	24.7	23.3
67.5°	8884.2	2011.3	109.8	71.4	41.2	34.3	28.8	27.5	16.5	13.7	13.7
70°	7619.7	1400.4	87.9	52.2	30.2	27.5	23.3	17.8	12.4	11.0	11.0
71°	6909.9	1169.7	79.6	43.9	26.1	26.1	22.0	15.1	11.0	9.6	9.6
72.5°	5740.2	830.6	67.3	34.3	23.3	27.5	23.3	13.7	11.0	9.6	8.2
75°	3332.1	347.3	46.7	23.3	17.8	33.0	30.2	12.4	8.2	6.9	6.9
77.5°	1002.2	127.7	26.1	15.1	13.7	28.8	34.3	11.0	4.1	1.4	1.4
80°	182.6	54.9	16.5	9.6	9.6	17.8	26.1	5.5	0.0	0.0	0.0
82.5°	64.5	27.5	9.6	5.5	4.1	8.2	12.4	0.0	0.0	0.0	0.0
85°	37.1	19.2	5.5	2.7	0.0	1.4	2.7	0.0	0.0	0.0	0.0
87.5°	24.7	5.5	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)