

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: P323992

Luminaire Tested: **GAN-SA8A-830-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323992
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-SA8A-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA 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: 24087 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

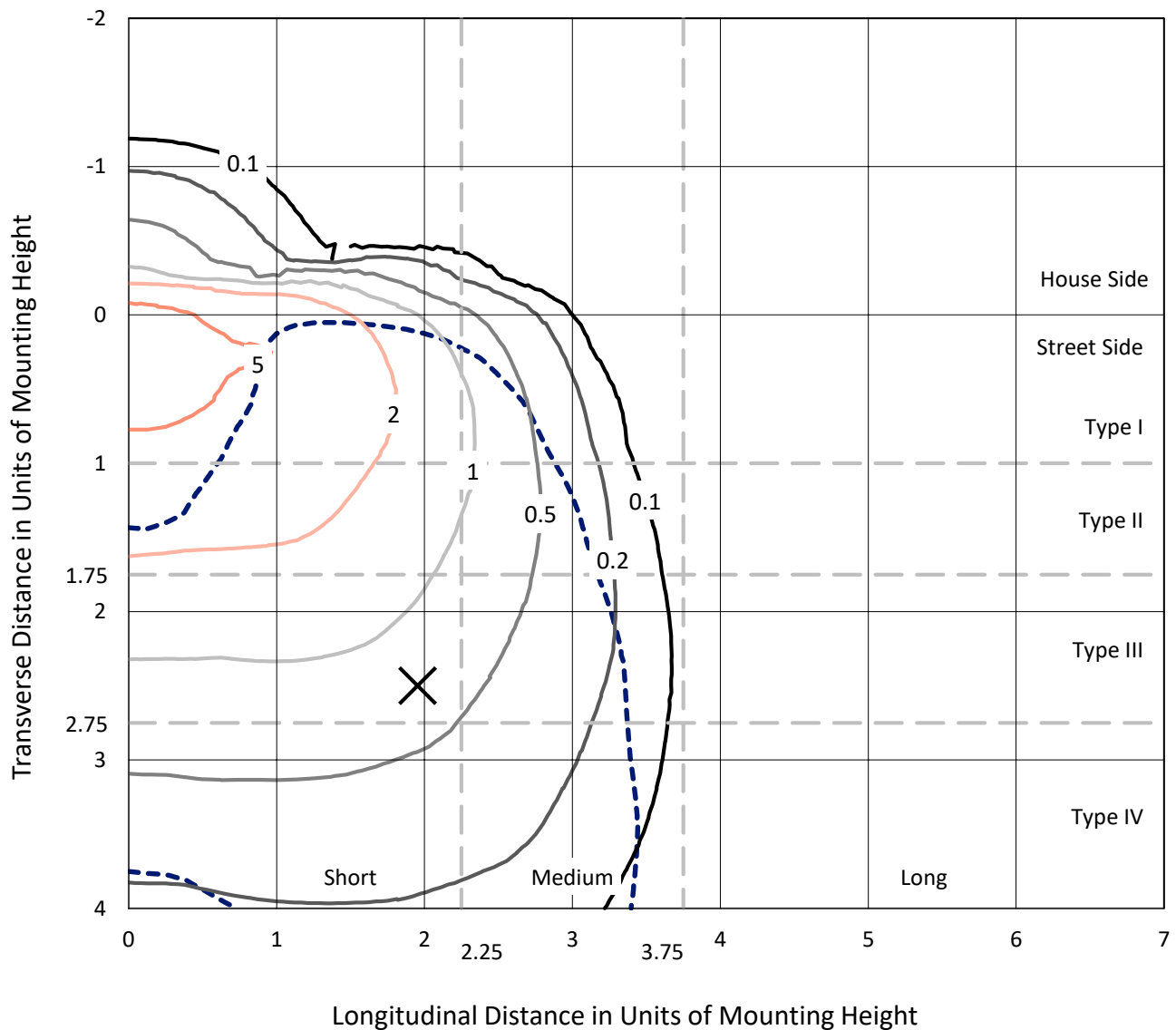
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323992
CATALOG NUMBER: GAN-SA8A-830-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

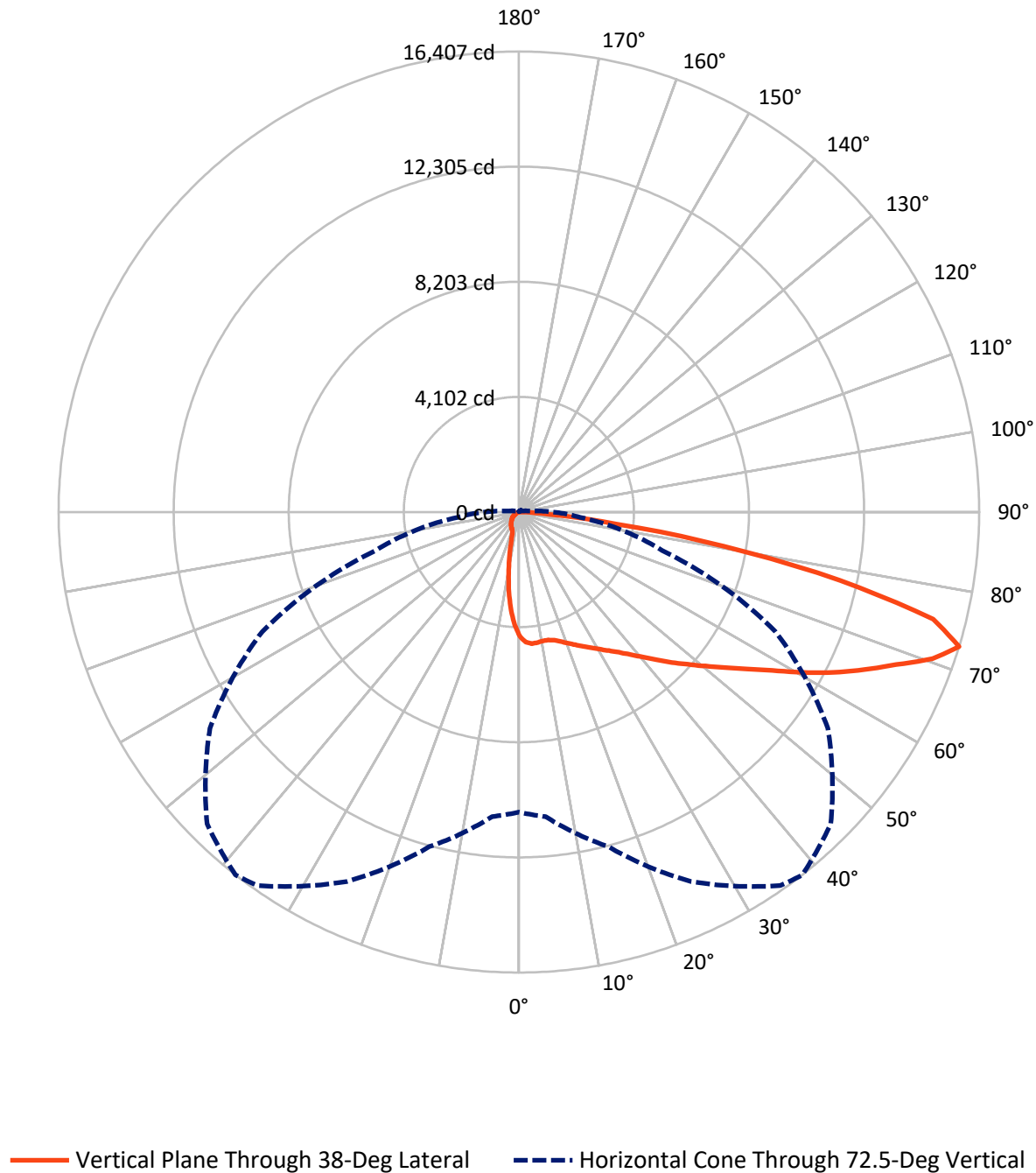
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
Type IV - Short - N/A

REPORT NUMBER: P323992
CATALOG NUMBER: GAN-SA8A-830-U-SL4-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P323992

CATALOG NUMBER: GAN-SA8A-830-U-SL4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2027.0	0.0	2027.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	22060.0	0.0	22060.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	24087.0	0.0	24087.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.5	1.6
10°-20°	923.0	3.8
20°-30°	1468.0	6.1
30°-40°	2207.1	9.2
40°-50°	3367.0	14.0
50°-60°	4758.7	19.8
60°-70°	5969.0	24.8
70°-80°	4463.2	18.5
80°-90°	553.4	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°	24087.0	100.0
0°-180°	24087.0	100.0

Coefficient of Utilization



REPORT NUMBER: P323992

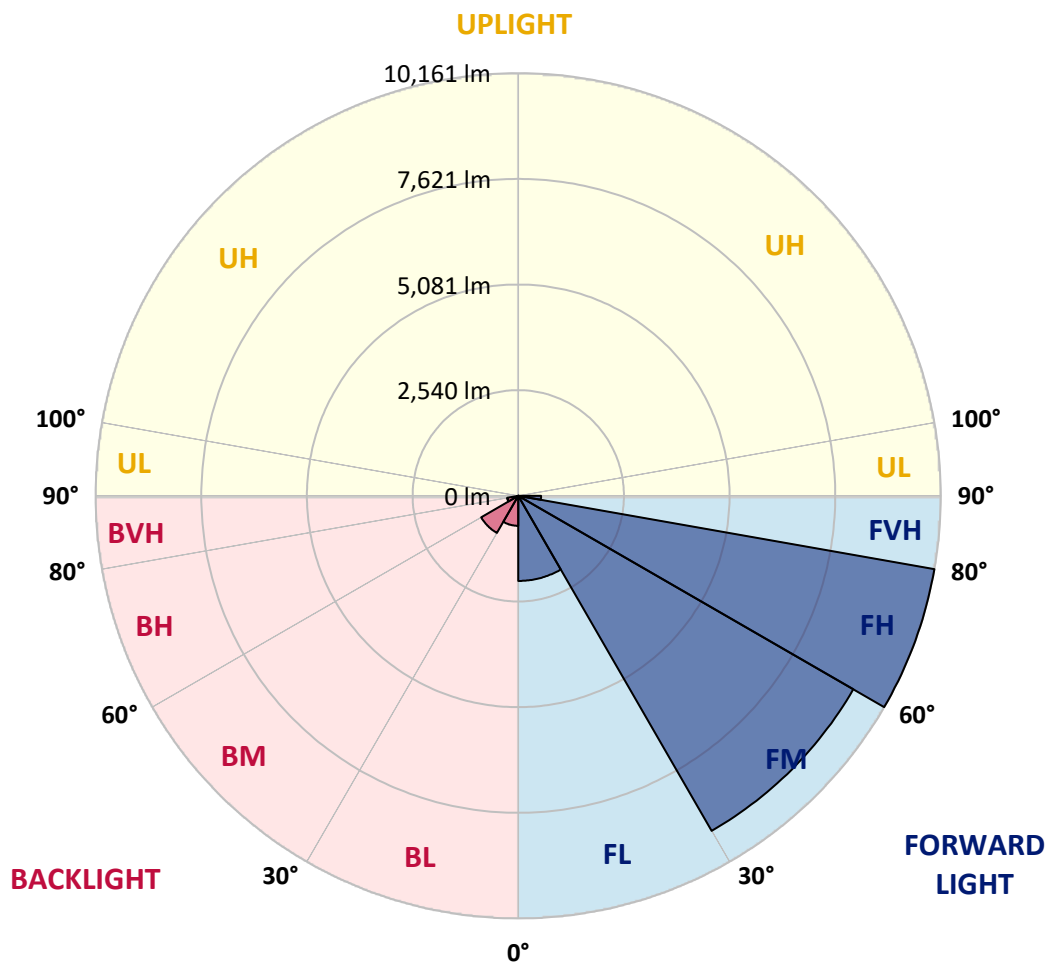
CATALOG NUMBER: GAN-SA8A-830-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2046.8	8.5			
FM	(30°-60°)	9303.5	38.6			
FH	(60°-80°)	10161.5	42.2			G4/12000
FVH	(80°-90°)	548.2	2.3			G4/750
BL	(0°-30°)	721.7	3.0	B2/1000		
BM	(30°-60°)	1029.3	4.3	B2/2500		
BH	(60°-80°)	270.8	1.1	B1/500		G1/500
BVH	(80°-90°)	5.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



REPORT NUMBER: P323992

CATALOG NUMBER: GAN-SA8A-830-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4429.5	4429.5	4429.5	4429.5	4429.5	4429.5	4429.5	4429.5	4429.5	4429.5	4429.5
2.5°	4701.6	4702.6	4691.6	4673.6	4650.6	4638.6	4618.6	4586.6	4552.6	4491.5	4425.5
5°	4797.6	4797.6	4783.6	4759.6	4722.6	4711.6	4673.6	4622.6	4552.6	4453.5	4342.5
7.5°	4787.6	4789.6	4770.6	4745.6	4708.6	4698.6	4652.6	4595.6	4508.5	4388.5	4246.5
10°	4735.6	4740.6	4725.6	4713.6	4679.6	4668.6	4625.6	4568.6	4481.5	4353.5	4190.4
12.5°	4682.6	4687.6	4692.6	4703.6	4682.6	4678.6	4644.6	4596.6	4513.5	4380.5	4196.4
15°	4648.6	4658.6	4694.6	4737.6	4742.6	4738.6	4716.6	4671.6	4587.6	4449.5	4239.5
17.5°	4648.6	4664.6	4739.6	4821.7	4850.7	4853.7	4834.7	4771.6	4671.6	4523.6	4279.5
20°	4687.6	4709.6	4826.7	4942.7	4990.7	4990.7	4953.7	4865.7	4748.6	4590.6	4306.5
22.5°	4787.6	4816.7	4963.7	5097.7	5148.8	5137.8	5087.7	4959.7	4828.7	4666.6	4340.5
25°	4984.7	5006.7	5159.8	5294.8	5325.8	5300.8	5237.8	5073.7	4930.7	4769.6	4402.5
27.5°	5238.8	5241.8	5399.9	5513.9	5494.9	5477.9	5398.9	5216.8	5077.7	4916.7	4509.5
30°	5517.9	5517.9	5656.9	5744.0	5686.0	5671.9	5592.9	5389.8	5265.8	5116.8	4661.6
32.5°	5788.0	5800.0	5913.0	5968.0	5903.0	5889.0	5812.0	5608.9	5515.9	5421.9	4898.7
35°	6049.1	6058.1	6165.1	6195.1	6133.1	6137.1	6082.1	5910.0	5875.0	5863.0	5255.8
37.5°	6302.2	6304.2	6413.2	6432.2	6401.2	6435.2	6440.2	6288.2	6353.2	6450.2	5759.0
40°	6533.2	6535.2	6643.3	6692.3	6745.3	6789.3	6828.3	6747.3	6962.4	7187.5	6358.2
42.5°	6718.3	6739.3	6876.4	6969.4	7109.4	7193.5	7299.5	7295.5	7687.6	8025.8	7082.4
45°	6881.4	6917.4	7108.4	7271.5	7511.6	7645.6	7811.7	7941.7	8503.9	8959.1	7815.7
47.5°	7096.4	7130.4	7348.5	7615.6	7935.7	8111.8	8386.9	8668.0	9401.2	9875.4	8531.9
50°	7399.5	7384.5	7599.6	7982.7	8393.9	8625.0	9017.1	9438.2	10291.5	10673.7	8953.1
52.5°	7722.6	7716.6	7875.7	8381.9	8934.1	9204.2	9722.3	10234.5	11142.8	11223.9	9146.1
55°	8122.8	8079.8	8213.8	8837.0	9575.3	9865.4	10475.6	11022.8	11821.1	11534.0	9243.2
57.5°	8541.9	8470.9	8599.0	9344.2	10298.5	10641.7	11309.9	11791.0	12272.2	11746.0	9242.2
60°	8975.1	8891.1	9043.1	9978.4	11196.8	11594.0	12214.2	12310.2	12693.4	11853.1	9174.1
62.5°	9337.2	9287.2	9513.3	10656.7	12200.2	12590.3	12897.4	12782.4	13048.5	11936.1	9015.1
65°	9720.3	9723.3	10088.5	11447.9	13266.6	13529.6	13555.7	13394.6	13345.6	11919.1	8476.9
67.5°	10238.5	10286.5	10895.7	12522.3	14303.9	14507.0	14505.0	14057.8	13562.7	11242.9	7283.5
70°	10786.7	10899.7	11826.1	13751.7	15436.3	15642.4	15536.3	14480.0	12770.4	9091.1	5154.8
72.5°	10694.7	10890.7	12343.2	14527.0	16249.6	16406.6	15717.4	13442.6	10093.5	5283.8	2194.8
75°	8250.8	8477.9	11317.9	13758.7	15396.3	15255.2	13504.6	10460.6	5515.9	1474.5	494.2
77.5°	4358.5	4479.5	7476.6	10481.6	12005.1	11710.0	9513.3	5803.0	1681.6	365.1	222.1
80°	2282.8	2310.8	3258.1	5947.0	7409.5	7411.5	5637.9	2548.9	693.2	187.1	149.1
82.5°	1222.4	1246.4	1721.6	2747.9	3882.3	3519.2	2158.7	1402.5	403.1	106.0	143.0
85°	294.1	299.1	976.3	1255.4	1526.5	1090.4	641.2	1177.4	109.0	62.0	116.0
87.5°	113.0	115.0	362.1	543.2	389.1	252.1	300.1	439.2	14.0	24.0	18.0
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: P323992

CATALOG NUMBER: GAN-SA8A-830-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4429.5	4429.5	4429.5	4429.5	4429.5	4429.5	4429.5	4429.5	4429.5	4429.5	4429.5
2.5°	4385.5	4359.5	4295.5	4214.4	4142.4	4090.4	4012.4	3961.4	3927.3	3926.3	3913.3
5°	4274.5	4221.4	4083.4	3919.3	3770.3	3636.2	3478.2	3353.2	3260.1	3245.1	3213.1
7.5°	4155.4	4068.4	3856.3	3600.2	3350.1	3096.1	2801.0	2617.9	2460.8	2385.8	2377.8
10°	4082.4	3960.4	3659.3	3289.1	2897.0	2483.9	2097.7	1830.6	1637.6	1582.5	1541.5
12.5°	4067.4	3906.3	3507.2	2997.0	2436.8	1890.6	1463.5	1179.4	1025.4	976.3	963.3
15°	4082.4	3881.3	3379.2	2707.9	1970.7	1341.5	982.3	817.3	759.3	745.3	744.3
17.5°	4091.4	3851.3	3234.1	2386.8	1518.5	958.3	752.3	704.2	695.2	694.2	696.2
20°	4090.4	3805.3	3061.1	2028.7	1129.4	753.3	680.2	670.2	668.2	669.2	668.2
22.5°	4083.4	3751.3	2871.0	1659.6	853.3	673.2	649.2	643.2	642.2	642.2	642.2
25°	4096.4	3708.3	2661.9	1306.4	703.2	636.2	621.2	616.2	615.2	615.2	613.2
27.5°	4143.4	3684.3	2432.8	1005.3	635.2	603.2	591.2	590.2	587.2	586.2	588.2
30°	4219.4	3684.3	2181.7	782.3	594.2	569.2	560.2	558.2	557.2	556.2	557.2
32.5°	4353.5	3712.3	1907.7	650.2	555.2	531.2	525.2	528.2	525.2	525.2	525.2
35°	4595.6	3796.3	1620.6	567.2	514.2	494.2	488.2	492.2	490.2	490.2	489.2
37.5°	4948.7	3952.4	1331.5	517.2	478.2	457.2	449.2	455.2	453.2	453.2	452.2
40°	5378.8	4179.4	1056.4	479.2	443.2	421.1	414.1	417.1	412.1	412.1	414.1
42.5°	5910.0	4467.5	816.3	442.2	408.1	387.1	383.1	380.1	371.1	366.1	367.1
45°	6500.2	4767.6	636.2	406.1	375.1	358.1	352.1	344.1	329.1	319.1	320.1
47.5°	7027.4	4998.7	517.2	371.1	345.1	332.1	323.1	308.1	286.1	274.1	275.1
50°	7304.5	5033.7	440.2	336.1	317.1	304.1	291.1	268.1	242.1	229.1	228.1
52.5°	7375.5	4869.7	383.1	304.1	289.1	274.1	257.1	226.1	197.1	183.1	181.1
55°	7401.5	4619.6	332.1	274.1	259.1	242.1	220.1	185.1	158.1	144.0	143.0
57.5°	7315.5	4246.5	292.1	247.1	229.1	208.1	181.1	148.1	122.0	111.0	111.0
60°	7124.4	3741.3	261.1	218.1	198.1	174.1	146.1	115.0	91.0	82.0	82.0
62.5°	6743.3	3087.1	232.1	188.1	169.1	144.0	118.0	87.0	64.0	59.0	60.0
65°	6024.1	2341.8	203.1	161.1	144.0	119.0	92.0	62.0	43.0	43.0	45.0
67.5°	4912.7	1626.6	173.1	137.0	124.0	97.0	70.0	43.0	30.0	34.0	38.0
70°	3252.1	912.3	148.1	113.0	106.0	77.0	52.0	29.0	24.0	32.0	39.0
72.5°	1227.4	355.1	124.0	91.0	92.0	59.0	37.0	22.0	22.0	35.0	46.0
75°	342.1	174.1	89.0	67.0	72.0	43.0	27.0	19.0	21.0	40.0	54.0
77.5°	201.1	128.0	58.0	39.0	49.0	30.0	18.0	15.0	18.0	34.0	52.0
80°	162.1	68.0	34.0	20.0	27.0	17.0	12.0	9.0	5.0	13.0	27.0
82.5°	162.1	41.0	16.0	14.0	14.0	9.0	6.0	4.0	1.0	0.0	7.0
85°	109.0	17.0	10.0	9.0	7.0	3.0	2.0	1.0	0.0	0.0	0.0
87.5°	18.0	7.0	4.0	2.0	1.0	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)