

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: P323372

Luminaire Tested: **GAN-SA8C-830-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37310 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: B3 - U0 - G5

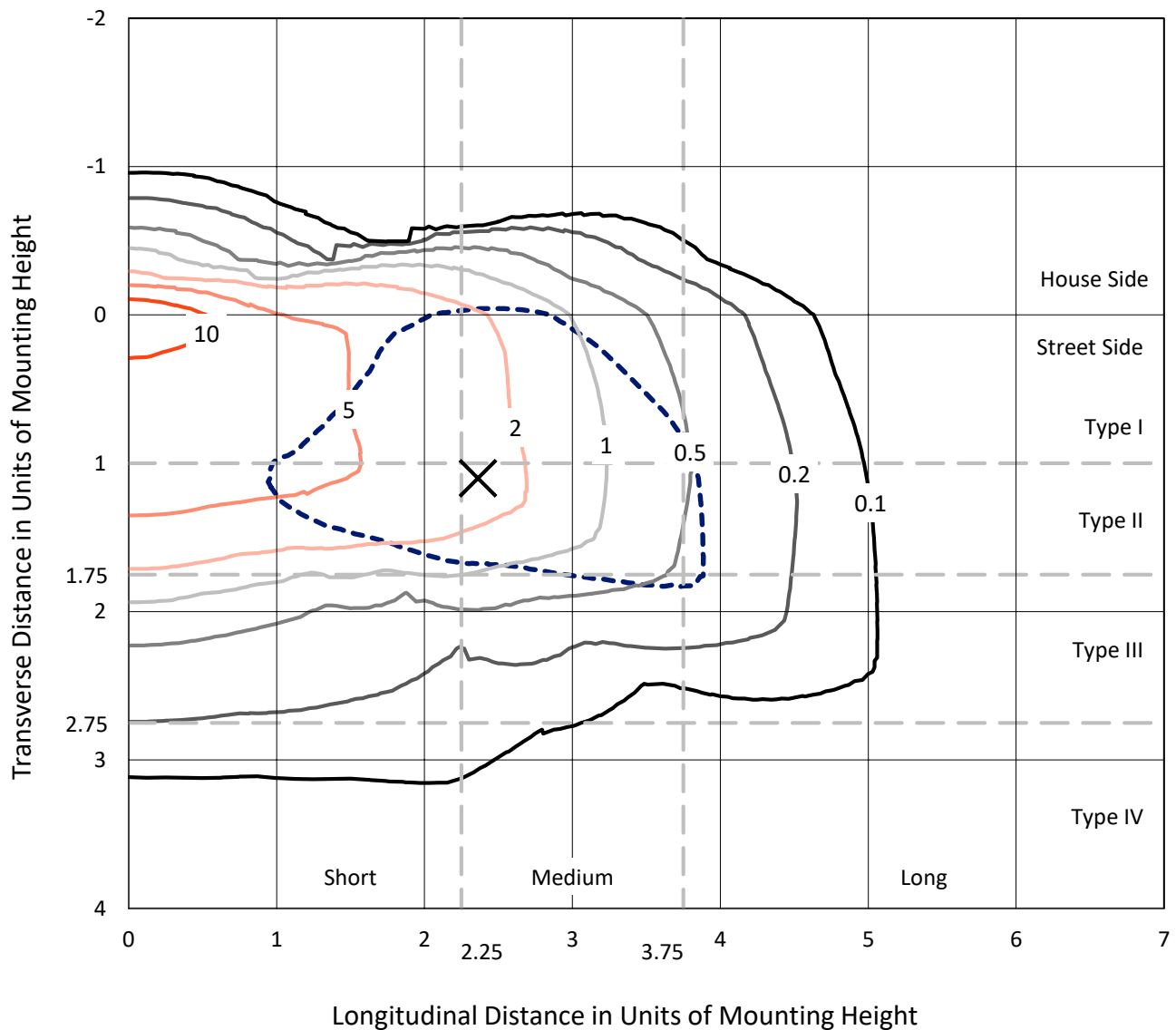
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323372
 CATALOG NUMBER: GAN-SA8C-830-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

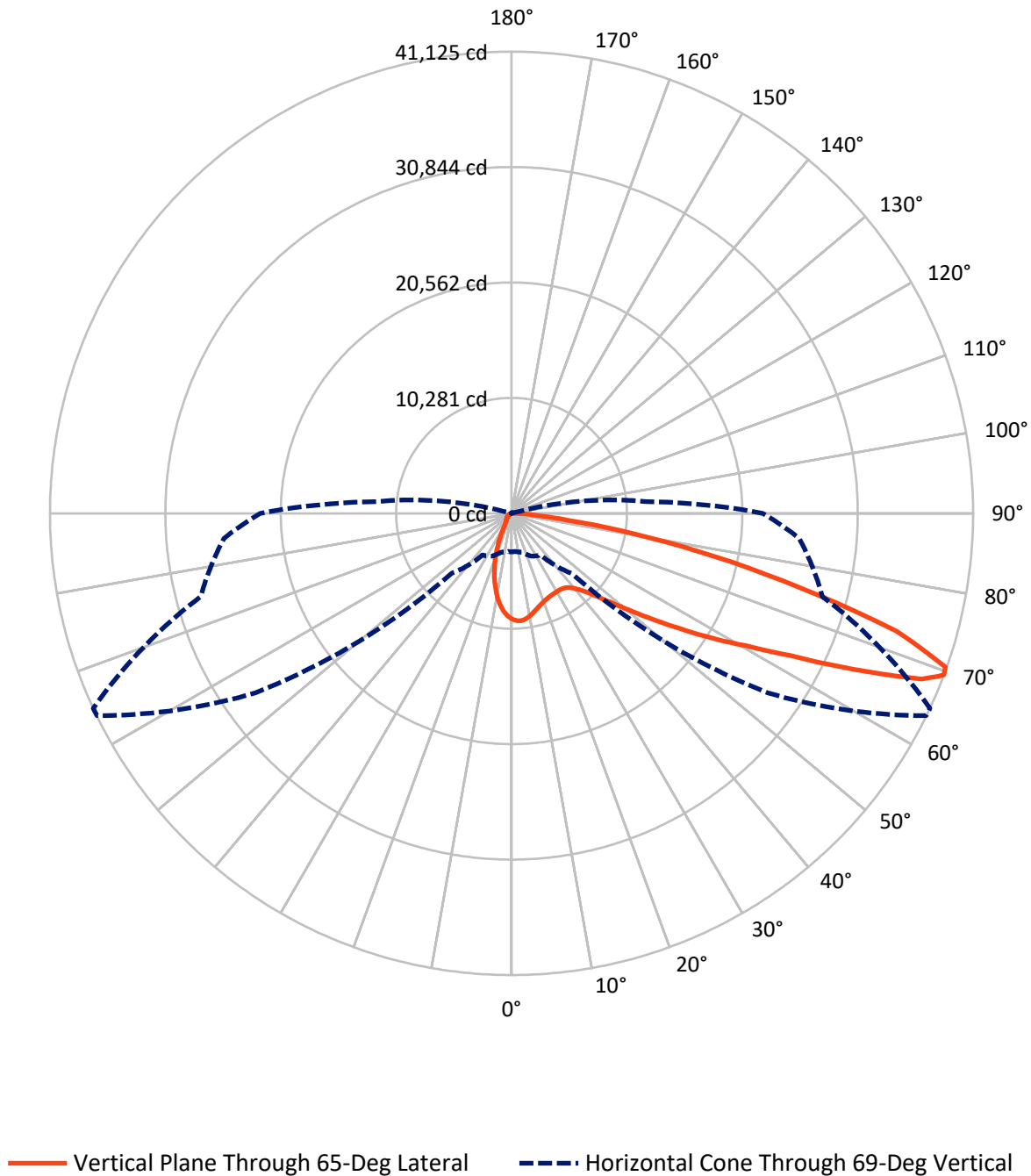
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P323372
CATALOG NUMBER: GAN-SA8C-830-U-SL2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P323372

CATALOG NUMBER: GAN-SA8C-830-U-SL2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4398.0	0.0	4398.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	32912.0	0.0	32912.0
	% Fixture	88.2	0.0	88.2
Total	Lumens	37310.0	0.0	37310.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	788.4	2.1
10°-20°	1725.8	4.6
20°-30°	2390.4	6.4
30°-40°	3332.9	8.9
40°-50°	5180.5	13.9
50°-60°	8316.7	22.3
60°-70°	9407.5	25.2
70°-80°	5525.1	14.8
80°-90°	642.7	1.7
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°	37310.0	100.0
0°-180°	37310.0	100.0

Coefficient of Utilization



REPORT NUMBER: P323372

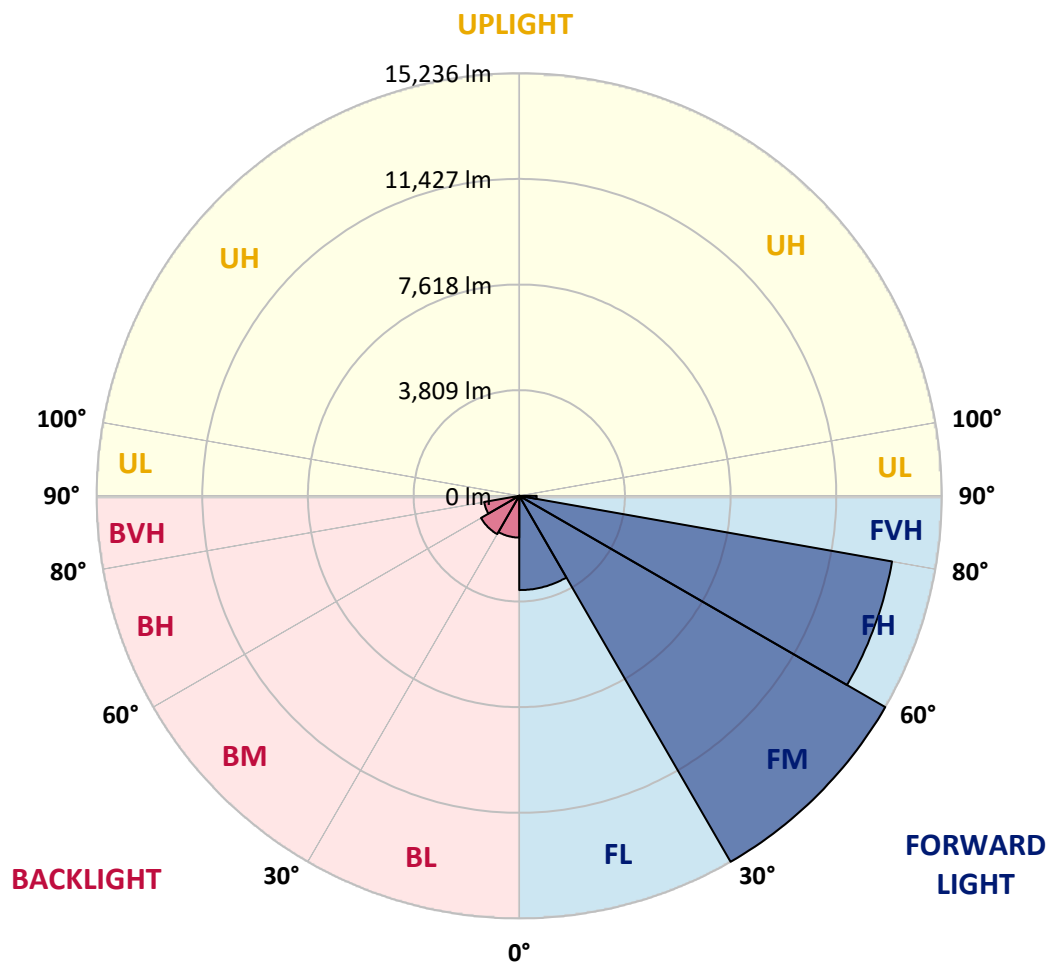
CATALOG NUMBER: GAN-SA8C-830-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3399.8	9.1			
FM	(30°-60°)	15236.3	40.8			
FH	(60°-80°)	13647.6	36.6			G5
FVH	(80°-90°)	628.3	1.7			G4/750
BL	(0°-30°)	1504.8	4.0	B3/2500		
BM	(30°-60°)	1593.7	4.3	B2/2500		
BH	(60°-80°)	1285.0	3.4	B3/2500		G3/2500
BVH	(80°-90°)	14.5	0.0			G1/100
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: P323372

CATALOG NUMBER: GAN-SA8C-830-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	9428.3	9428.3	9428.3	9428.3	9428.3	9428.3	9428.3	9428.3	9428.3	9428.3	9428.3
2.5°	9512.0	9488.3	9507.2	9548.3	9568.8	9568.8	9584.6	9565.7	9572.0	9526.2	9459.9
5°	8916.8	8880.5	8932.6	9047.8	9189.9	9311.5	9491.5	9586.2	9595.7	9597.2	9519.9
7.5°	8275.8	8242.7	8320.0	8455.8	8638.9	8864.7	9178.9	9453.6	9469.3	9617.8	9560.9
10°	7754.8	7731.1	7821.1	7966.4	8181.1	8433.7	8818.9	9201.0	9246.7	9575.1	9554.6
12.5°	7341.2	7322.2	7407.5	7574.8	7794.3	8073.7	8476.3	8919.9	8981.5	9478.8	9523.0
15°	7039.7	7036.5	7107.5	7268.6	7511.7	7772.2	8184.2	8659.5	8730.5	9374.6	9518.3
17.5°	6881.8	6886.5	6938.6	7076.0	7284.4	7543.3	7938.0	8440.0	8517.4	9281.5	9542.0
20°	6866.0	6870.7	6899.1	6976.5	7145.4	7374.3	7737.5	8255.3	8335.8	9212.0	9579.9
22.5°	7004.9	7001.8	7009.7	7001.8	7096.5	7270.1	7604.8	8113.2	8206.3	9166.2	9609.9
25°	7271.7	7267.0	7263.8	7205.4	7142.3	7235.4	7549.6	8032.7	8121.1	9133.1	9627.2
27.5°	7642.7	7639.6	7634.8	7538.5	7349.1	7290.7	7555.9	8002.7	8076.9	9106.2	9624.1
30°	8130.6	8152.7	8146.4	8012.2	7716.9	7459.6	7622.2	7986.9	8051.6	9054.1	9590.9
32.5°	8703.7	8747.9	8782.6	8638.9	8269.5	7794.3	7775.3	8004.3	8051.6	9014.7	9530.9
35°	9298.8	9355.7	9483.6	9433.0	8946.8	8297.9	8039.0	8108.5	8147.9	9036.8	9502.5
37.5°	9884.6	9952.4	10230.3	10377.1	9834.0	8964.1	8449.5	8365.8	8386.3	9171.0	9534.1
40°	10565.0	10667.6	11089.1	11326.0	10893.4	9856.1	9063.6	8807.9	8815.7	9466.2	9680.9
42.5°	11458.6	11564.4	12020.6	12391.6	12086.9	10983.4	9897.2	9483.6	9475.7	10018.8	10026.6
45°	12547.9	12658.4	13130.5	13542.5	13405.2	12319.0	10964.4	10470.3	10460.8	10890.2	10681.8
47.5°	13782.5	13891.4	14313.0	14737.6	14886.0	13878.8	12323.7	11817.0	11794.9	12101.1	11693.8
50°	14841.8	14912.9	15301.3	15872.8	16542.2	15795.4	14014.6	13526.7	13503.1	13709.9	13179.4
52.5°	15227.1	15268.1	15662.8	16463.2	18133.5	18390.9	16235.9	15607.5	15590.2	15680.2	15157.6
55°	14447.2	14521.4	15006.0	16193.3	18995.5	21324.2	19039.7	18184.1	18053.0	17858.8	17225.8
57.5°	12322.2	12440.6	12961.5	14540.3	18593.0	23651.3	23160.3	21098.4	20905.8	19718.6	18907.1
60°	9232.5	9377.8	9810.4	11513.8	16444.3	24480.1	27662.9	24345.9	23911.8	21199.5	20452.7
62.5°	6335.5	6408.2	6701.8	7811.7	12110.6	23122.4	31429.8	28695.4	27902.8	22809.8	22124.6
65°	4838.9	4864.1	4984.1	5366.2	7211.7	18782.4	32928.0	34434.1	33475.8	24735.9	23859.7
67.5°	3899.5	3879.0	4044.8	4591.0	4829.4	11458.6	31180.3	39863.5	39415.1	27310.8	25605.8
69°	3438.5	3410.1	3579.0	4213.7	4535.8	7574.8	27874.4	41096.5	41124.9	28670.1	25725.8
70°	3094.4	3113.3	3280.6	3989.5	4436.3	5945.6	24716.9	40782.3	41006.5	29178.5	25005.8
72.5°	2066.6	2117.1	2453.4	3312.2	4265.8	4499.4	14923.9	34996.2	35858.2	28033.9	21453.7
75°	1165.1	1203.0	1602.4	2497.6	4019.5	4284.7	7882.7	25782.6	26616.2	23442.9	16543.7
77.5°	571.5	592.0	906.2	1611.9	3361.2	4082.7	4471.0	17513.1	18465.1	15301.3	9357.3
80°	241.5	252.6	453.1	994.6	2402.9	3896.4	3320.1	10778.1	10896.5	5994.5	2492.8
82.5°	93.1	96.3	191.0	620.4	1526.7	3037.5	2777.0	5110.4	4987.3	1128.8	568.4
85°	11.1	12.6	69.5	372.6	849.4	1563.0	2256.0	2202.4	2038.2	224.2	292.1
87.5°	0.0	0.0	4.7	113.7	252.6	732.5	1173.0	914.1	824.1	72.6	151.6
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: P323372

CATALOG NUMBER: GAN-SA8C-830-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9428.3	9428.3	9428.3	9428.3	9428.3	9428.3	9428.3	9428.3	9428.3	9428.3	9428.3
2.5°	9404.6	9388.8	9303.6	9180.4	9063.6	8918.4	8779.4	8695.8	8629.5	8585.2	8637.3
5°	9429.9	9360.4	9101.5	8770.0	8444.7	8078.5	7737.5	7448.5	7334.9	7208.6	7265.4
7.5°	9422.0	9291.0	8825.2	8234.8	7638.0	7020.7	6436.6	5986.6	5753.0	5524.1	5582.5
10°	9382.5	9161.5	8455.8	7581.2	6687.6	5800.3	4971.5	4341.6	3989.5	3670.6	3716.4
12.5°	9295.7	8987.8	8020.1	6832.8	5637.7	4467.9	3496.9	2690.2	2257.6	2066.6	2090.3
15°	9243.6	8818.9	7559.1	6075.0	4516.8	3111.7	2137.6	1589.8	1392.5	1329.3	1337.2
17.5°	9218.3	8656.3	7082.3	5208.3	3370.6	1981.3	1381.4	1218.8	1176.2	1165.1	1168.3
20°	9193.1	8492.1	6591.3	4351.0	2322.3	1332.5	1135.1	1087.8	1072.0	1057.8	1060.9
22.5°	9150.4	8334.2	6064.0	3482.7	1566.1	1081.4	1023.0	977.2	944.1	926.7	929.9
25°	9098.3	8168.5	5525.6	2593.9	1143.0	964.6	909.4	844.6	805.2	773.6	775.2
27.5°	9014.7	7964.8	4969.9	1888.2	959.9	863.6	789.4	718.3	652.0	615.7	615.7
30°	8897.8	7734.3	4352.6	1351.4	860.4	764.1	674.1	585.7	514.7	481.5	478.4
32.5°	8768.4	7494.3	3729.0	1024.6	781.5	671.0	568.4	475.2	412.1	385.2	383.6
35°	8657.9	7235.4	3107.0	858.8	702.5	581.0	468.9	390.0	339.4	317.3	315.8
37.5°	8586.8	6976.5	2500.7	767.3	631.5	497.3	393.1	322.1	285.8	268.4	266.8
40°	8575.8	6783.9	1946.6	697.8	565.2	423.1	328.4	273.1	240.0	221.0	219.4
42.5°	8719.4	6673.4	1493.5	639.4	497.3	358.4	279.4	233.7	198.9	180.0	178.4
45°	9096.8	6708.1	1149.3	587.3	429.4	303.1	236.8	194.2	162.6	148.4	145.2
47.5°	9785.1	6948.1	914.1	535.2	364.7	257.3	202.1	161.0	134.2	120.0	118.4
50°	11010.2	7511.7	764.1	478.4	304.7	219.4	167.3	131.0	108.9	96.3	94.7
52.5°	12636.3	8515.8	682.0	423.1	252.6	186.3	137.4	104.2	85.3	75.8	74.2
55°	14429.8	9731.4	628.3	363.1	206.8	154.7	108.9	82.1	66.3	58.4	55.3
57.5°	16180.6	10784.4	577.8	304.7	172.1	126.3	86.8	64.7	52.1	44.2	42.6
60°	17789.4	11752.2	519.4	244.7	140.5	99.5	67.9	50.5	41.0	33.2	33.2
62.5°	19511.8	12500.6	438.9	191.0	115.2	75.8	55.3	45.8	33.2	28.4	26.8
65°	21336.8	13056.3	344.2	148.4	90.0	56.8	45.8	47.4	26.8	20.5	18.9
67.5°	22685.1	12945.8	254.2	116.8	69.5	44.2	44.2	50.5	23.7	15.8	14.2
69°	22388.3	12047.5	213.1	101.0	60.0	37.9	41.0	50.5	22.1	14.2	12.6
70°	21527.9	11052.8	187.9	90.0	53.7	34.7	39.5	48.9	20.5	14.2	12.6
72.5°	17928.3	8324.8	146.8	67.9	42.6	28.4	33.2	42.6	20.5	14.2	11.1
75°	13485.7	5328.3	112.1	48.9	31.6	22.1	25.3	31.6	20.5	12.6	11.1
77.5°	7338.0	1921.3	80.5	33.2	22.1	17.4	17.4	23.7	18.9	9.5	6.3
80°	1886.6	483.1	50.5	22.1	17.4	12.6	11.1	15.8	11.1	1.6	0.0
82.5°	465.7	108.9	26.8	15.8	12.6	4.7	4.7	7.9	4.7	0.0	0.0
85°	255.8	53.7	17.4	11.1	6.3	0.0	0.0	1.6	0.0	0.0	0.0
87.5°	131.0	15.8	4.7	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)