

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: P321412

Luminaire Tested: **GAN-SA8C-827-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321412
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33636 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

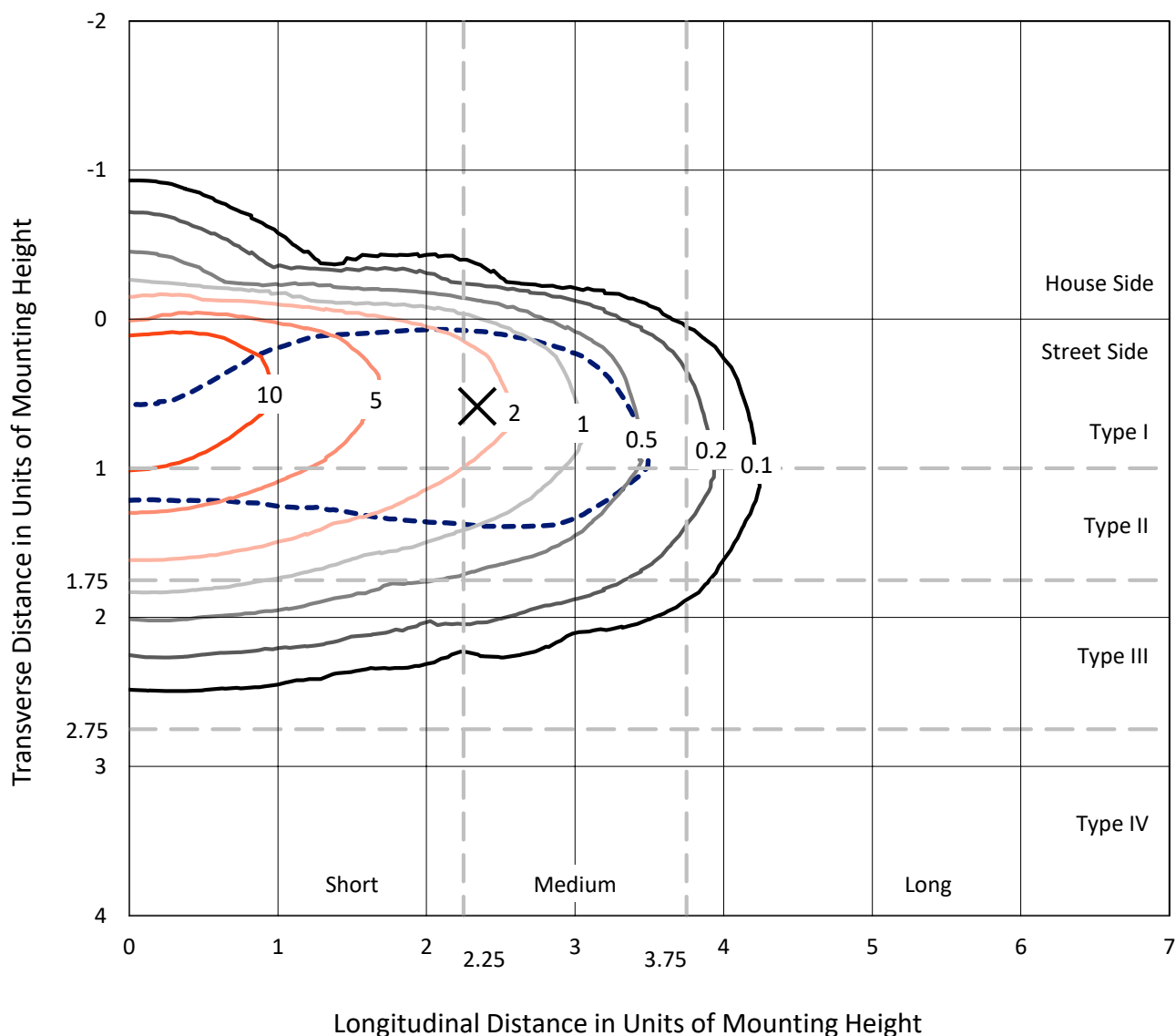
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321412
 CATALOG NUMBER: GAN-SA8C-827-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

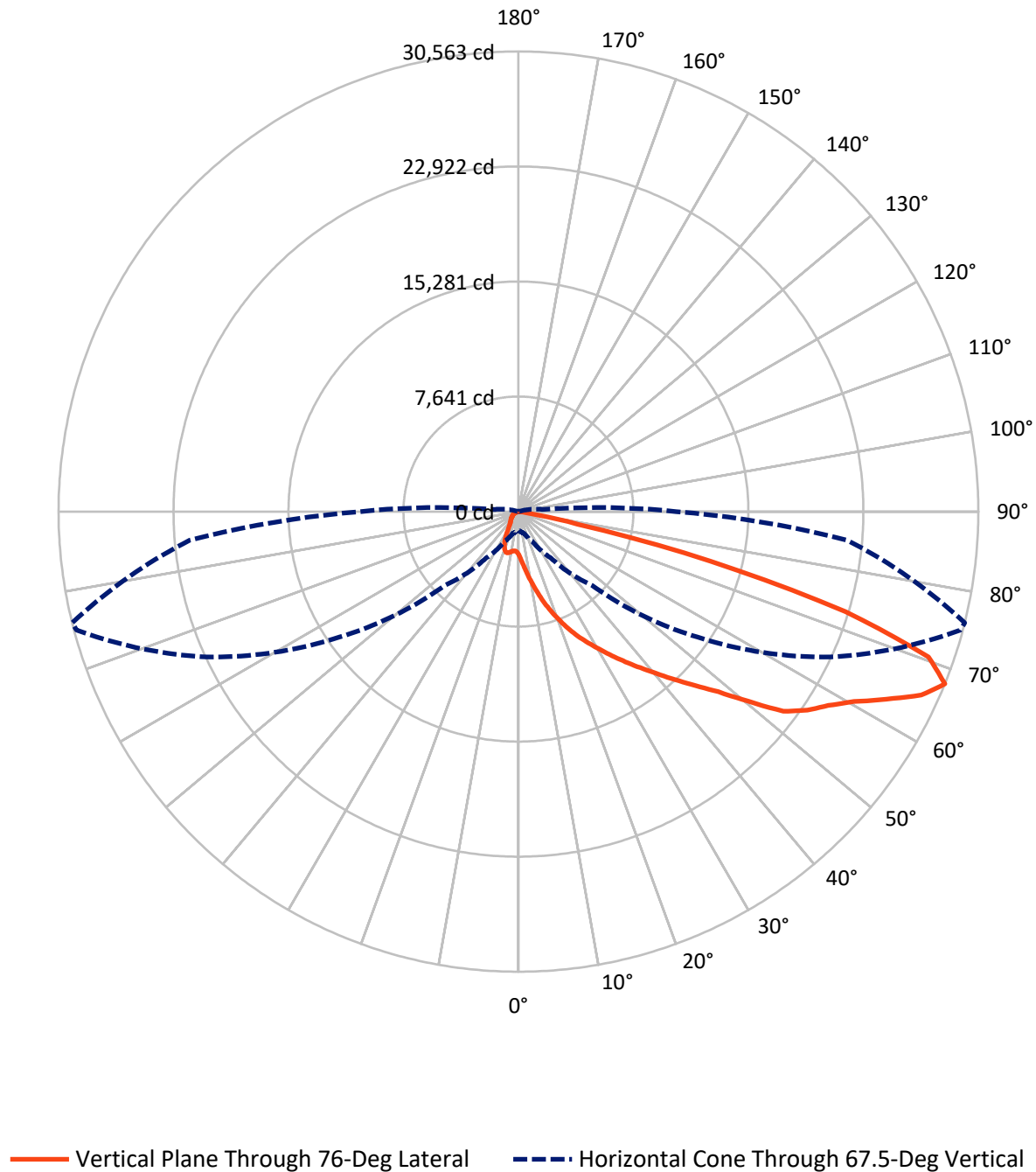
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P321412
CATALOG NUMBER: GAN-SA8C-827-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P321412

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1670.3	0.0	1670.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	31965.7	0.0	31965.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	33636.0	0.0	33636.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.8	1.1
10°-20°	1406.5	4.2
20°-30°	2861.8	8.5
30°-40°	4967.1	14.8
40°-50°	7017.8	20.9
50°-60°	7958.6	23.7
60°-70°	6600.9	19.6
70°-80°	2391.0	7.1
80°-90°	77.5	0.2
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°	33636.0	100.0
0°-180°	33636.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321412

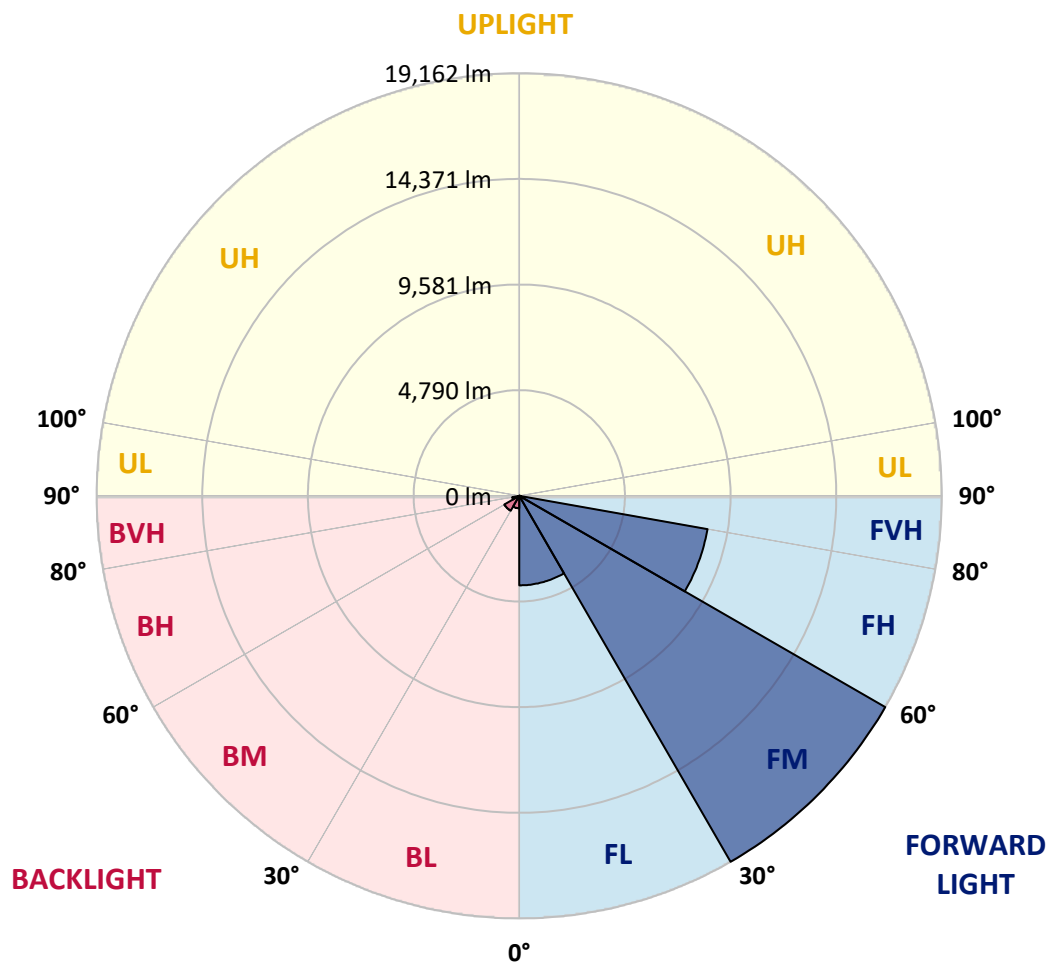
CATALOG NUMBER: GAN-SA8C-827-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4059.8	12.1			
FM	(30°-60°)	19161.7	57.0			
FH	(60°-80°)	8669.1	25.8			G4/12000
FVH	(80°-90°)	75.1	0.2			G1/100
BL	(0°-30°)	563.3	1.7	B2/1000		
BM	(30°-60°)	781.7	2.3	B1/1000		
BH	(60°-80°)	322.8	1.0	B1/500		G1/500
BVH	(80°-90°)	2.4	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 II Medium





REPORT NUMBER: P321412

CATALOG NUMBER: GAN-SA8C-827-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2853.3	2853.3	2853.3	2853.3	2853.3	2853.3	2853.3	2853.3	2853.3	2853.3	2853.3
2.5°	4259.3	4163.5	4185.6	4123.7	4011.7	3781.8	3585.8	3400.1	3183.4	3176.1	2997.7
5°	5743.5	5662.4	5652.1	5526.8	5323.4	4932.9	4552.6	4119.3	3635.9	3600.5	3221.8
7.5°	7090.5	7025.7	7002.1	6853.2	6474.5	6094.2	5599.0	4962.3	4206.3	4141.4	3523.9
10°	8125.1	8094.2	8100.1	7994.0	7669.7	7316.0	6666.1	5854.0	4853.3	4753.1	3886.5
12.5°	8909.2	8916.6	8969.6	8904.8	8723.5	8461.2	7767.0	6804.6	5569.5	5432.5	4300.6
15°	9485.5	9522.3	9619.6	9700.7	9687.4	9460.4	8823.7	7770.0	6330.0	6178.2	4761.9
17.5°	9858.4	9899.6	10041.1	10220.9	10386.0	10332.9	9843.6	8701.4	7099.4	6924.0	5255.6
20°	10185.5	10234.2	10386.0	10623.3	10931.3	10997.6	10676.3	9604.9	7867.2	7653.5	5765.6
22.5°	10894.4	10893.0	10985.8	11124.4	11417.6	11588.6	11385.2	10443.5	8626.2	8403.7	6285.8
25°	12176.7	12128.0	12095.6	11986.5	12051.4	12157.5	12044.0	11227.5	9389.7	9164.2	6813.4
27.5°	13700.6	13730.1	13467.7	13174.4	12947.5	12838.4	12652.7	11954.1	10123.6	9876.0	7329.3
30°	15308.5	15317.4	15007.9	14633.5	14133.9	13719.7	13398.5	12648.3	10878.2	10608.5	7830.4
32.5°	16758.8	16701.3	16394.7	15884.8	15254.0	14788.3	14120.6	13423.5	11677.0	11416.2	8387.5
35°	17908.3	17840.5	17467.7	17003.4	16349.0	15880.4	15077.1	14197.3	12517.1	12262.1	8946.1
37.5°	18748.4	18668.8	18285.6	17808.1	17243.6	16971.0	16186.9	15038.8	13433.8	13159.7	9534.1
40°	19040.2	18971.0	18730.7	18381.4	17927.5	17865.6	17364.5	16007.1	14431.6	14139.8	10200.3
42.5°	18866.3	18798.5	18713.0	18595.1	18406.5	18465.4	18475.8	17111.0	15539.9	15252.5	10935.7
45°	18176.6	18116.1	18204.6	18377.0	18611.3	18903.2	19489.7	18297.4	16777.9	16471.4	11786.1
47.5°	17161.1	17116.9	17361.5	17791.9	18477.2	19281.9	20416.8	19544.3	18167.7	17883.3	12847.3
50°	15716.8	15709.4	16198.7	16984.3	18038.0	19464.7	21374.7	20962.1	20098.4	19799.2	14322.5
52.5°	13467.7	13482.5	14444.9	15702.0	17267.2	19340.9	21990.8	22783.7	22344.5	22033.5	15600.3
55°	11326.3	11414.7	12097.1	13909.9	16085.2	18881.1	22203.0	23634.1	23584.0	23289.2	16310.7
57.5°	9229.0	9389.7	10047.0	11740.4	14359.4	17821.4	22086.6	24002.6	24506.6	24281.1	17248.1
60°	6956.4	7030.1	7787.6	9370.5	12144.2	15887.7	21242.1	24203.0	25768.2	25612.0	18608.4
62.5°	4425.9	4610.1	5282.2	6809.0	9456.0	13202.4	19818.4	24200.1	27346.6	27432.1	20363.7
65°	2331.6	2546.8	2903.4	4219.5	6498.1	10203.2	17676.9	23973.1	29283.2	29402.6	21735.8
67.5°	1257.2	1319.1	1507.7	2190.1	3768.5	6912.2	14530.3	22853.0	30404.8	30562.5	21927.4
70°	919.7	953.6	1024.3	1211.5	1896.8	4014.7	10602.6	20313.6	28959.0	28900.0	19482.4
72.5°	706.0	759.0	812.1	887.2	1090.6	2142.9	6601.2	15906.9	23106.5	22717.4	14562.8
75°	557.1	565.9	641.1	708.9	818.0	1220.3	2931.4	9264.4	14102.9	13181.8	7551.8
77.5°	445.1	451.0	495.2	554.2	657.3	801.8	907.9	3644.7	4502.5	4017.6	1638.9
80°	263.8	278.6	368.5	427.4	545.3	505.5	331.6	791.4	703.0	636.7	275.6
82.5°	147.4	159.2	207.8	337.5	380.2	241.7	165.1	213.7	165.1	160.6	78.1
85°	0.0	7.4	134.1	209.3	154.8	53.1	69.3	70.7	48.6	45.7	31.0
87.5°	0.0	0.0	41.3	39.8	5.9	8.8	16.2	23.6	19.2	19.2	16.2
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: P321412

CATALOG NUMBER: GAN-SA8C-827-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2853.3	2853.3	2853.3	2853.3	2853.3	2853.3	2853.3	2853.3	2853.3	2853.3	2853.3
2.5°	2909.3	2829.7	2679.4	2532.0	2408.2	2306.5	2215.1	2178.3	2148.8	2144.4	2120.8
5°	3039.0	2878.4	2591.0	2355.2	2197.5	2085.4	1989.7	1930.7	1885.0	1867.3	1851.1
7.5°	3235.0	2991.8	2579.2	2308.0	2119.3	1930.7	1753.8	1562.2	1442.9	1397.2	1370.6
10°	3473.8	3142.2	2623.4	2294.7	1964.6	1566.7	1273.4	1030.2	931.5	899.0	890.2
12.5°	3752.3	3329.3	2700.0	2212.2	1634.5	1112.7	878.4	795.9	773.8	763.4	763.4
15°	4072.2	3534.2	2754.6	1973.4	1208.5	841.5	760.5	722.2	698.6	685.3	686.8
17.5°	4399.3	3734.6	2728.0	1627.1	891.7	748.7	688.3	647.0	614.6	601.3	598.4
20°	4729.5	3920.3	2580.7	1211.5	754.6	679.4	611.6	565.9	533.5	520.3	517.3
22.5°	5071.4	4078.0	2321.3	888.7	678.0	602.8	536.5	490.8	459.8	448.0	442.1
25°	5404.5	4206.3	1958.7	719.2	605.7	530.6	467.2	424.5	396.5	384.7	383.2
27.5°	5715.5	4287.3	1538.7	635.2	542.4	465.7	408.2	369.9	346.3	337.5	336.0
30°	5995.5	4294.7	1137.8	573.3	486.4	409.7	356.7	322.8	302.1	293.3	290.3
32.5°	6278.5	4232.8	828.3	517.3	434.8	361.1	309.5	283.0	268.2	260.9	260.9
35°	6545.2	4089.8	645.5	468.7	384.7	313.9	272.7	253.5	244.7	237.3	237.3
37.5°	6806.1	3885.0	548.3	425.9	337.5	274.1	240.2	228.4	221.1	213.7	213.7
40°	7071.4	3627.1	498.1	386.1	299.2	243.2	213.7	203.4	196.0	190.1	188.6
42.5°	7397.1	3329.3	465.7	349.3	265.3	215.2	188.6	176.9	171.0	165.1	162.1
45°	7774.4	3072.9	439.2	312.4	237.3	191.6	163.6	151.8	143.0	135.6	134.1
47.5°	8318.2	2887.2	403.8	272.7	210.8	166.5	141.5	128.2	115.0	107.6	106.1
50°	9012.4	2733.9	358.1	237.3	184.2	141.5	117.9	101.7	89.9	82.5	82.5
52.5°	9357.3	2533.5	316.9	206.3	154.8	119.4	95.8	76.6	70.7	63.4	63.4
55°	9495.8	2380.2	275.6	175.4	128.2	98.7	75.2	59.0	54.5	50.1	48.6
57.5°	9884.9	2336.0	240.2	148.9	106.1	78.1	57.5	44.2	41.3	35.4	35.4
60°	10511.3	2358.1	207.8	126.7	85.5	60.4	42.7	33.9	31.0	25.1	25.1
62.5°	11187.7	2330.1	175.4	109.1	66.3	44.2	29.5	25.1	25.1	14.7	13.3
65°	11317.4	2075.1	150.3	89.9	51.6	32.4	19.2	16.2	22.1	2.9	0.0
67.5°	10503.9	1609.4	129.7	69.3	38.3	25.1	14.7	7.4	19.2	0.0	0.0
70°	8399.3	1022.8	104.6	50.1	29.5	20.6	11.8	2.9	14.7	0.0	0.0
72.5°	5939.5	593.9	82.5	35.4	25.1	16.2	8.8	0.0	8.8	0.0	0.0
75°	3003.6	316.9	51.6	26.5	19.2	11.8	5.9	0.0	1.5	0.0	0.0
77.5°	650.0	147.4	32.4	19.2	13.3	7.4	2.9	0.0	0.0	0.0	0.0
80°	141.5	64.8	20.6	11.8	7.4	4.4	0.0	0.0	0.0	0.0	0.0
82.5°	51.6	33.9	10.3	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.0	17.7	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.7	5.9	1.5	1.5	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)