

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: P324932

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34113 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

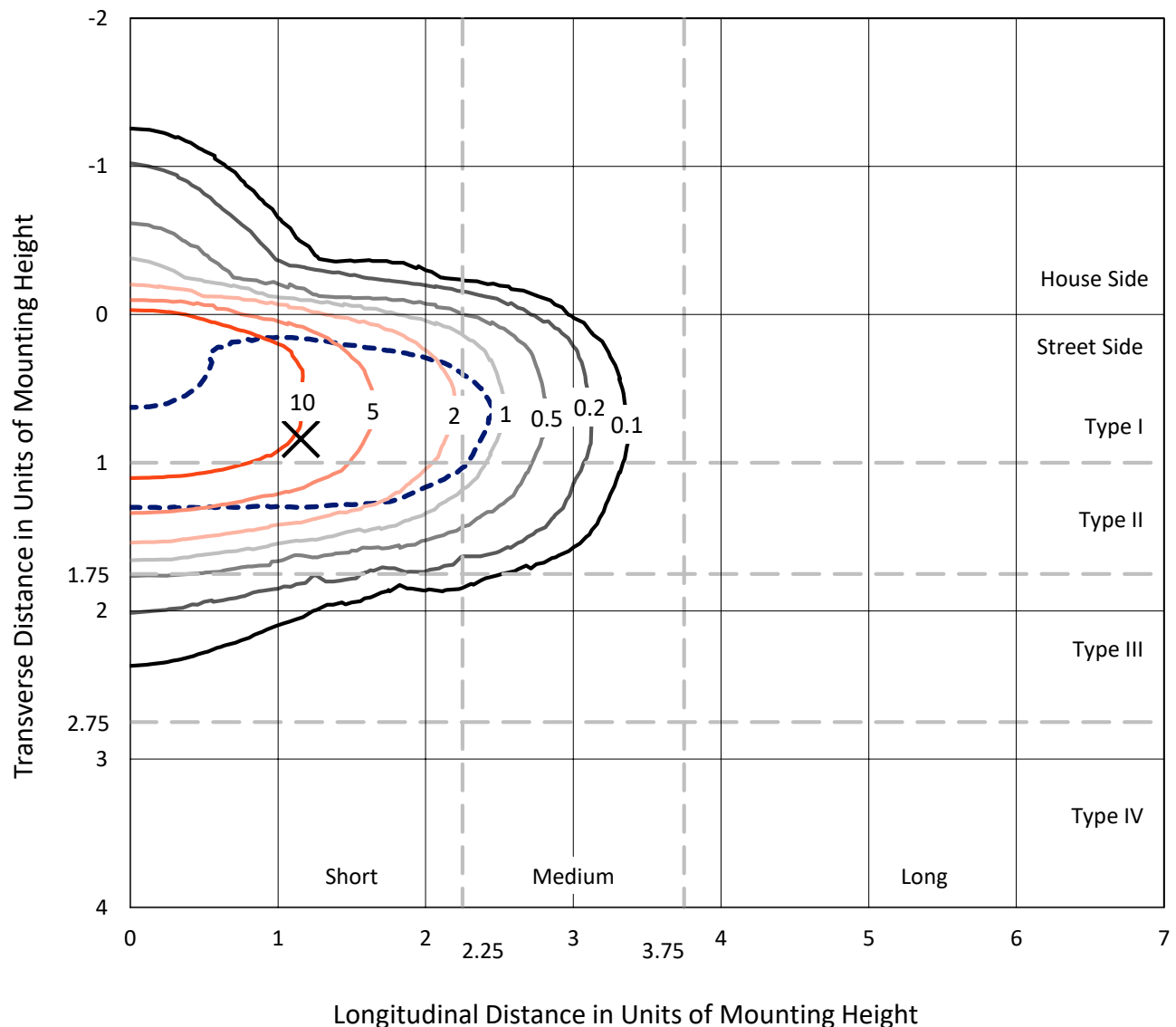
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324932
 CATALOG NUMBER: GAN-SA8C-827-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

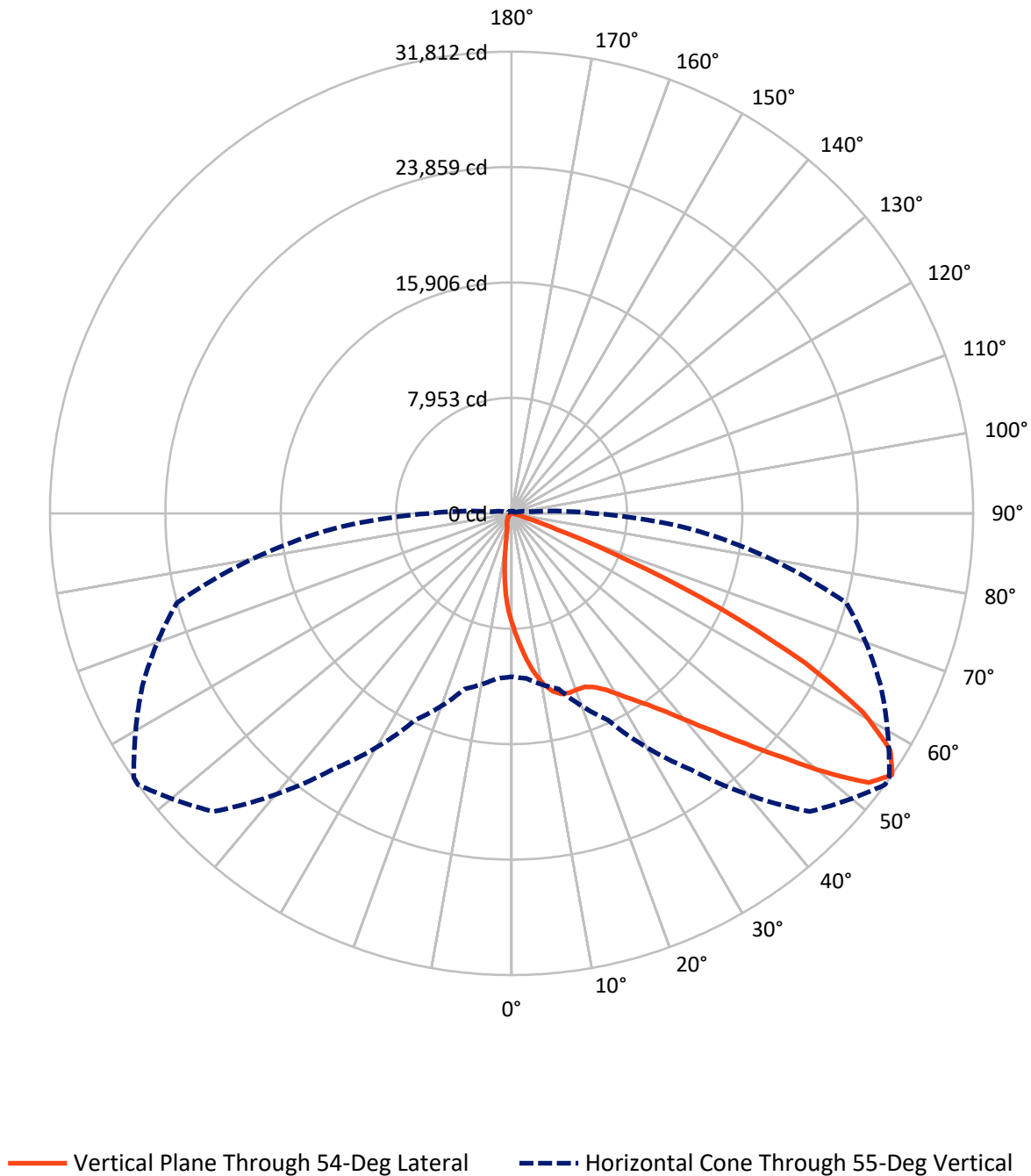
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 fc
 Type II - Short - N/A

REPORT NUMBER: P324932
CATALOG NUMBER: GAN-SA8C-827-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P324932

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

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1702.0	0.0	1702.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	32411.0	0.0	32411.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	34113.0	0.0	34113.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	703.5	2.1
10°-20°	1929.5	5.7
20°-30°	3294.3	9.7
30°-40°	5286.8	15.5
40°-50°	8448.4	24.8
50°-60°	9052.6	26.5
60°-70°	4647.9	13.6
70°-80°	704.0	2.1
80°-90°	45.8	0.1
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°	34113.0	100.0
0°-180°	34113.0	100.0

Coefficient of Utilization



REPORT NUMBER: P324932

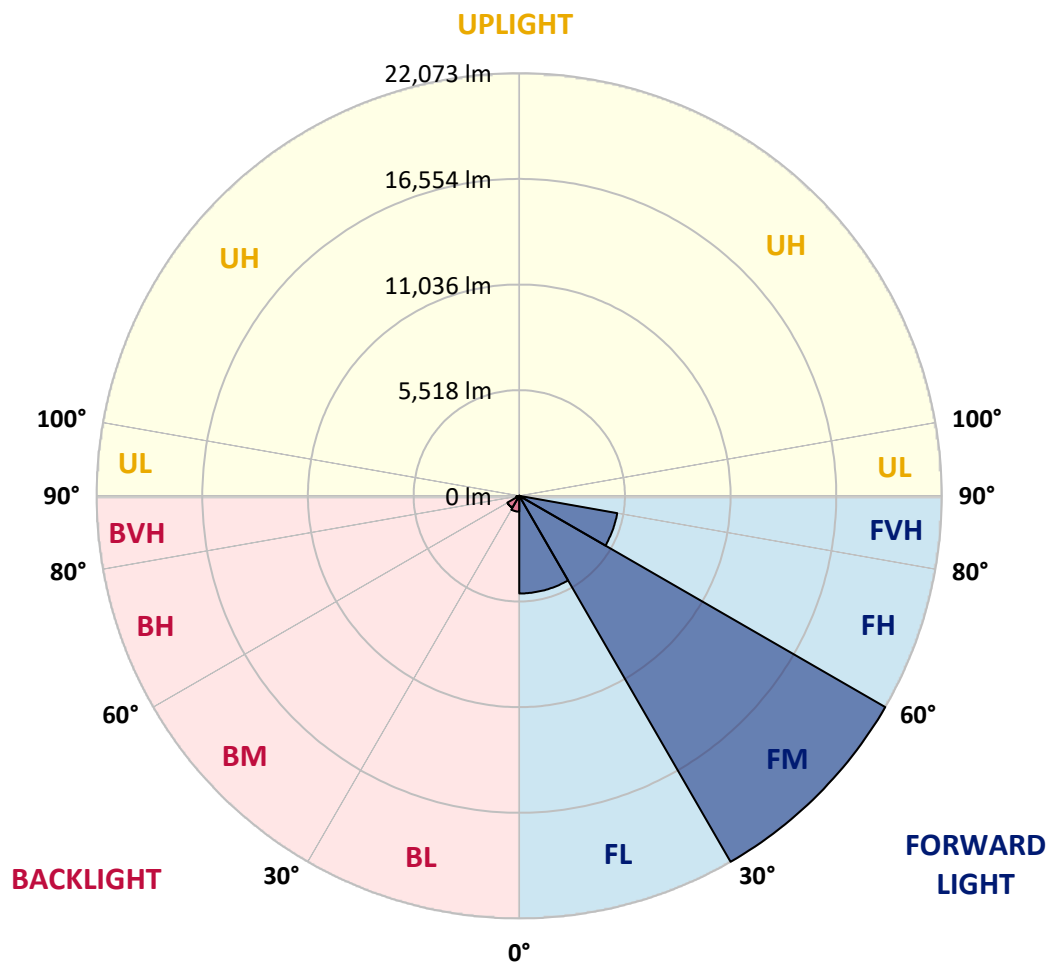
CATALOG NUMBER: GAN-SA8C-827-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5099.3	14.9			
FM	(30°-60°)	22072.6	64.7			
FH	(60°-80°)	5195.1	15.2			G3/7500
FVH	(80°-90°)	44.0	0.1			G1/100
BL	(0°-30°)	828.1	2.4	B2/1000		
BM	(30°-60°)	715.2	2.1	B1/1000		
BH	(60°-80°)	156.8	0.5	B1/500		G1/500
BVH	(80°-90°)	1.8	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-G3

Type II Short



REPORT NUMBER: P324932

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7639.9	7639.9	7639.9	7639.9	7639.9	7639.9	7639.9	7639.9	7639.9	7639.9	7639.9
2.5°	9587.5	9444.6	9449.0	9384.2	9147.0	8961.4	8768.4	8722.7	8422.2	8106.9	7803.5
5°	11244.8	11140.2	11115.2	10990.0	10660.0	10310.8	9936.6	9849.7	9261.9	8616.7	7981.7
7.5°	12096.3	12097.8	12077.2	12031.5	11825.3	11486.4	11029.7	10938.4	10138.5	9170.6	8167.3
10°	11848.8	11904.8	12019.7	12171.5	12329.1	12286.4	11943.1	11860.6	10991.4	9756.9	8373.6
12.5°	11271.3	11278.7	11406.9	11655.8	12109.6	12575.1	12581.0	12553.0	11806.1	10369.8	8600.5
15°	10984.1	11012.1	11059.2	11219.8	11650.0	12395.4	12928.7	12968.5	12553.0	11020.9	8842.1
17.5°	11172.6	11212.4	11172.6	11191.8	11440.8	12111.1	12989.1	13090.7	13205.6	11664.7	9070.4
20°	11683.8	11720.7	11650.0	11571.9	11620.5	12028.6	12946.4	13083.4	13716.8	12236.3	9261.9
22.5°	12373.3	12388.0	12280.5	12152.3	12117.0	12308.5	12981.7	13123.1	14126.4	12753.4	9382.7
25°	13132.0	13145.2	13011.2	12863.9	12779.9	12858.0	13271.9	13378.0	14487.3	13246.9	9452.0
27.5°	13958.4	13970.2	13802.3	13621.1	13523.8	13526.8	13750.7	13864.2	14871.8	13809.6	9507.9
30°	14832.0	14826.1	14671.5	14419.5	14295.8	14292.9	14440.2	14555.1	15428.7	14531.5	9584.5
32.5°	15813.2	15801.4	15581.9	15269.6	15129.6	15150.2	15281.4	15347.7	16119.6	15300.5	9721.6
35°	17105.2	17071.3	16739.8	16352.4	16094.6	16087.2	16197.7	16250.7	17000.6	16231.6	9949.9
37.5°	18781.6	18750.7	18301.4	17738.6	17376.2	17240.7	17371.8	17439.6	18257.2	17426.3	10316.7
40°	20434.6	20403.6	20137.0	19621.4	19063.0	18737.5	18840.6	18912.8	19826.1	18875.9	10779.3
42.5°	21574.8	21601.3	21694.1	21736.9	21213.9	20530.3	20577.5	20652.6	21474.6	20425.7	11308.2
45°	21875.3	21932.8	22457.2	23487.0	23682.9	23149.6	22656.1	22697.4	23149.6	21975.5	11837.0
47.5°	20972.3	21078.3	22090.4	24005.6	25664.4	26041.5	25107.5	25053.0	24756.9	23229.2	12212.7
50°	18920.1	19017.4	20328.5	23161.4	26265.4	28802.3	28045.0	27884.5	26166.7	23979.0	12345.3
52.5°	15950.2	16068.0	17133.2	20503.8	25132.6	30033.8	30826.4	30692.4	27200.9	24038.0	12367.4
55°	11264.0	11406.9	12533.9	15714.5	21542.4	29054.2	31812.0	31772.2	28059.8	23881.8	12414.5
57.5°	6330.3	6433.4	7648.8	10073.6	15777.8	25306.4	30782.2	31045.9	28578.3	23610.8	12485.3
60°	2810.8	2838.8	3467.9	5014.7	9236.9	19340.0	27834.4	28279.3	28133.4	23248.3	12604.6
62.5°	1558.6	1535.1	1535.1	2084.6	4014.4	11972.6	22697.4	23432.5	26234.5	22819.7	12610.5
65°	1221.3	1199.2	1135.8	1144.7	1529.2	5313.8	15717.4	17024.1	22628.1	21563.0	12186.2
67.5°	1035.6	1016.5	953.2	928.1	950.2	1753.1	8635.8	9992.6	17170.0	18297.0	10555.4
70°	875.1	861.8	829.4	798.5	742.5	866.2	3304.4	4226.6	10580.4	12171.5	7205.4
72.5°	704.2	698.3	710.1	683.6	615.8	577.5	1129.9	1368.6	4752.5	5431.6	2968.5
75°	607.0	604.0	609.9	583.4	506.8	402.2	574.5	627.6	1340.6	1328.8	601.1
77.5°	394.8	399.2	505.3	493.5	436.1	268.1	297.6	321.2	406.6	304.9	182.7
80°	251.9	249.0	256.3	409.5	391.9	204.8	148.8	156.2	195.9	150.3	88.4
82.5°	153.2	150.3	167.9	191.5	197.4	142.9	91.3	92.8	122.3	97.2	47.1
85°	13.3	17.7	101.6	94.3	67.8	44.2	44.2	47.1	64.8	57.5	26.5
87.5°	0.0	0.0	17.7	26.5	14.7	16.2	16.2	17.7	25.0	25.0	13.3
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: P324932

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

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7639.9	7639.9	7639.9	7639.9	7639.9	7639.9	7639.9	7639.9	7639.9	7639.9	7639.9
2.5°	7645.8	7492.6	7183.3	6885.7	6633.8	6390.7	6113.7	5839.7	5711.5	5660.0	5606.9
5°	7659.1	7343.8	6705.9	6063.6	5397.8	4798.2	4287.0	3762.5	3500.3	3385.4	3332.3
7.5°	7676.8	7196.5	6165.3	5086.9	4014.4	3201.2	2491.2	2034.5	1837.1	1806.1	1729.5
10°	7679.7	7018.3	5537.7	4008.5	2691.5	1929.9	1485.0	1249.3	1162.3	1147.6	1122.6
12.5°	7685.6	6807.6	4840.9	2968.5	1794.3	1290.5	1074.0	995.9	972.3	970.8	970.8
15°	7703.3	6586.6	4117.6	2139.1	1289.0	1022.4	942.8	911.9	903.1	907.5	906.0
17.5°	7703.3	6325.9	3407.5	1594.0	1041.5	919.3	875.1	854.4	851.5	855.9	857.4
20°	7647.3	6009.1	2756.3	1240.4	923.7	853.0	813.2	794.0	786.7	789.6	791.1
22.5°	7513.2	5620.2	2226.0	1026.8	845.6	792.6	749.9	720.4	708.6	710.1	710.1
25°	7304.1	5159.1	1741.3	888.3	782.3	727.8	677.7	643.8	636.4	634.9	637.9
27.5°	7035.9	4649.4	1386.3	782.3	707.1	655.6	605.5	577.5	571.6	573.1	574.5
30°	6772.2	4120.5	1093.1	692.4	623.2	574.5	536.2	523.0	523.0	527.4	528.9
32.5°	6530.6	3612.3	864.8	614.3	548.0	503.8	481.7	480.3	487.6	490.6	492.0
35°	6322.9	3142.3	716.0	553.9	489.1	450.8	443.4	449.3	458.2	464.1	465.5
37.5°	6175.6	2722.4	626.1	503.8	443.4	412.5	411.0	422.8	434.6	447.8	450.8
40°	6113.7	2367.4	564.2	459.6	406.6	383.0	378.6	394.8	416.9	436.1	439.0
42.5°	6062.2	2077.2	511.2	416.9	377.1	343.3	341.8	362.4	388.9	408.1	412.5
45°	6018.0	1844.4	462.6	371.2	338.8	294.6	299.1	325.6	346.2	366.8	371.2
47.5°	5926.6	1652.9	409.5	322.6	279.9	251.9	260.8	284.3	300.5	331.5	335.9
50°	5763.1	1496.8	355.0	263.7	228.3	218.0	231.3	247.5	268.1	294.6	297.6
52.5°	5652.6	1378.9	307.9	221.0	188.6	191.5	204.8	210.7	222.5	232.8	229.8
55°	5589.3	1314.1	269.6	191.5	160.6	169.4	172.4	165.0	159.1	148.8	144.4
57.5°	5581.9	1255.2	240.1	166.5	141.4	145.8	135.5	110.5	89.9	78.1	75.1
60°	5570.1	1183.0	216.6	140.0	125.2	119.3	97.2	60.4	42.7	39.8	39.8
62.5°	5441.9	1071.0	198.9	117.9	106.1	89.9	56.0	28.0	23.6	25.0	25.0
65°	5033.9	914.8	181.2	95.8	84.0	64.8	28.0	16.2	8.8	10.3	10.3
67.5°	4279.6	729.2	162.1	73.7	63.3	41.2	16.2	7.4	0.0	0.0	0.0
70°	2865.3	452.3	137.0	51.6	41.2	25.0	11.8	1.5	0.0	0.0	0.0
72.5°	1099.0	244.5	110.5	30.9	26.5	17.7	7.4	0.0	0.0	0.0	0.0
75°	247.5	160.6	76.6	22.1	19.2	11.8	2.9	0.0	0.0	0.0	0.0
77.5°	94.3	116.4	44.2	14.7	13.3	7.4	0.0	0.0	0.0	0.0	0.0
80°	45.7	69.2	20.6	8.8	7.4	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	23.6	26.5	8.8	4.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.3	13.3	4.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	4.4	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)