

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: P268832

Luminaire Tested: **GAN-AF-09-LED-U-SL2-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-SL2-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 38294.5 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

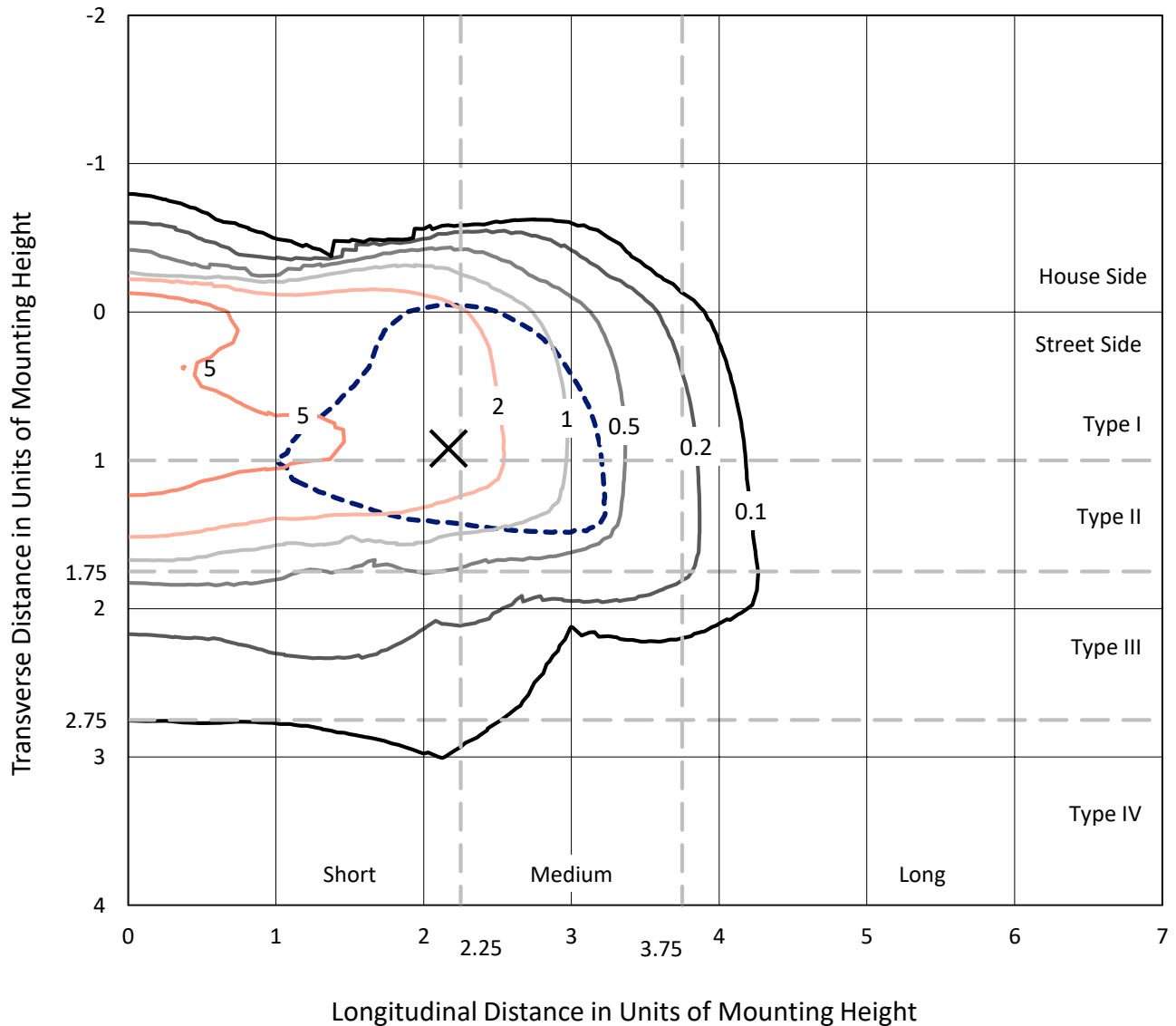
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

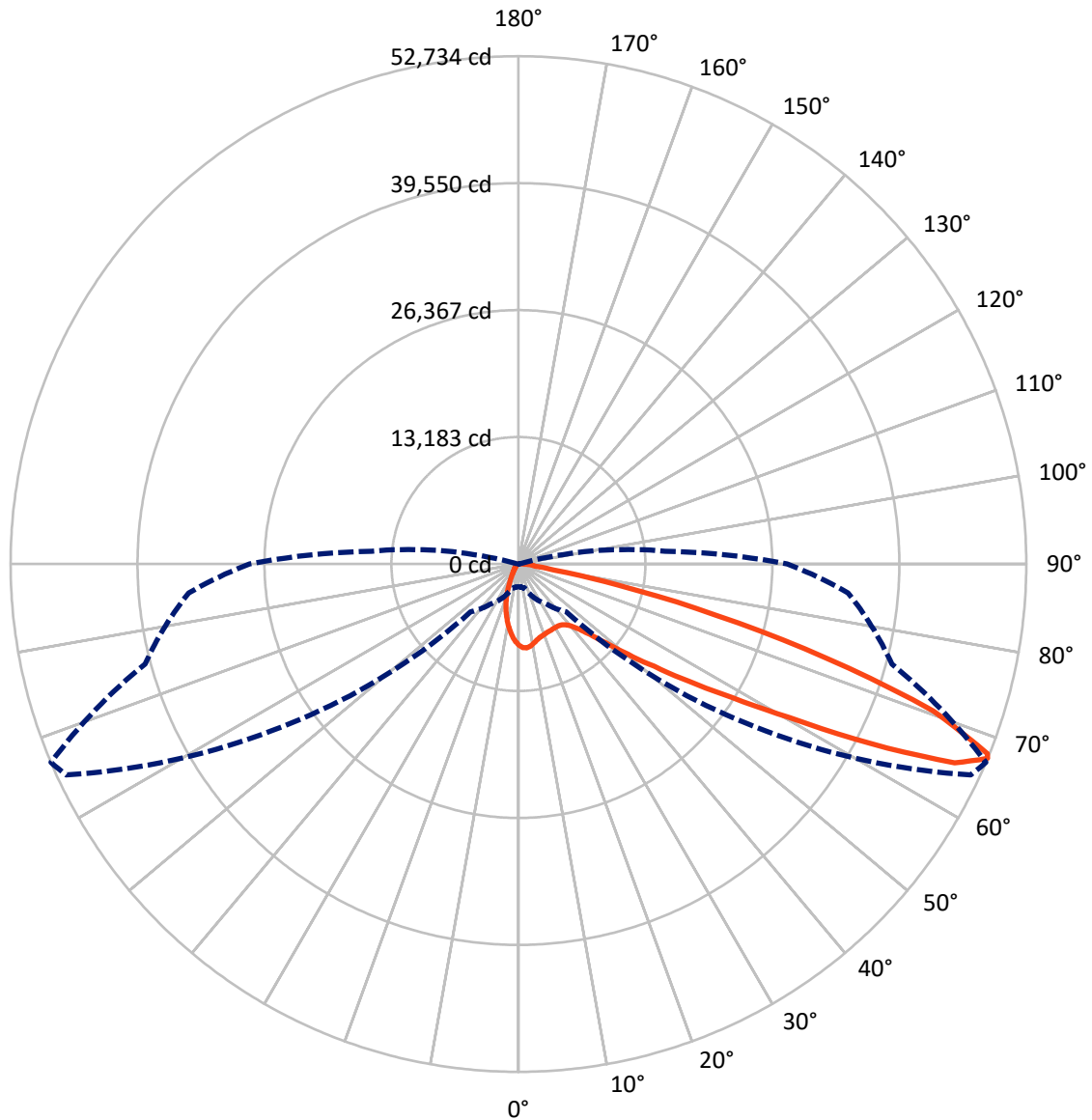
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3976.1	0.0	3976.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	34318.4	0.0	34318.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	38294.5	0.0	38294.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.2	1.8
10°-20°	1462.6	3.8
20°-30°	2126.5	5.6
30°-40°	3317.4	8.7
40°-50°	5876.6	15.3
50°-60°	9299.1	24.3
60°-70°	10650.9	27.8
70°-80°	4417.9	11.5
80°-90°	456.3	1.2
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°	38294.5	100.0
0°-180°	38294.5	100.0

Coefficient of Utilization



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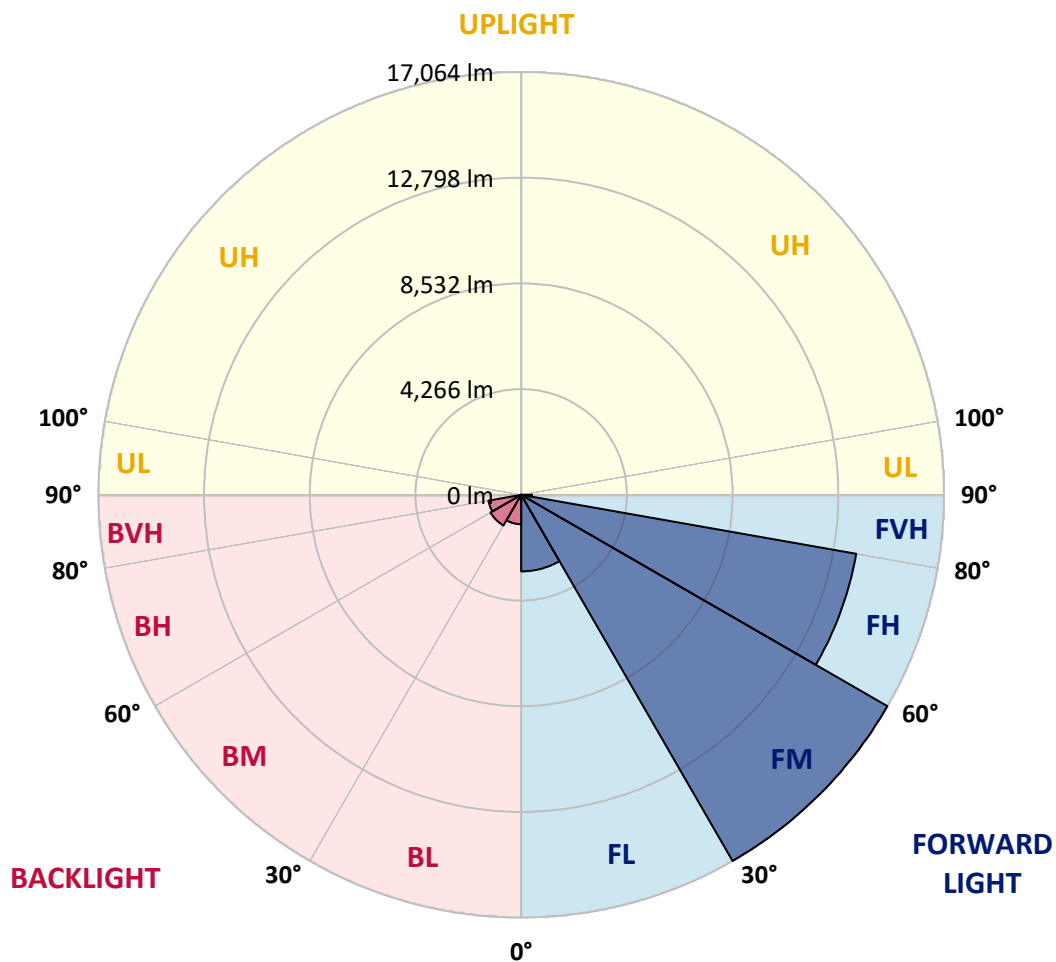
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3089.8	8.1			
FM (30°-60°)	17064.1	44.6			
FH (60°-80°)	13728.7	35.9			G5
FVH (80°-90°)	435.8	1.1			G3/500
BL (0°-30°)	1186.5	3.1	B3/2500		
BM (30°-60°)	1429.0	3.7	B2/2500		
BH (60°-80°)	1340.1	3.5	B3/2500		G3/2500
BVH (80°-90°)	20.5	0.1			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8445.3	8445.3	8445.3	8445.3	8445.3	8445.3	8445.3	8445.3	8445.3	8445.3	8445.3
2.5°	8731.3	8749.1	8746.8	8760.4	8791.5	8793.8	8762.4	8702.2	8688.8	8610.7	8474.4
5°	8052.2	8103.6	8135.0	8262.3	8405.1	8577.1	8706.7	8753.5	8746.8	8691.0	8485.6
7.5°	7277.2	7328.6	7364.2	7514.0	7703.8	7998.6	8335.9	8612.9	8637.5	8697.7	8476.6
10°	6761.3	6770.2	6819.3	6962.3	7161.0	7462.6	7864.7	8349.2	8423.0	8644.1	8454.3
12.5°	6336.9	6343.6	6408.2	6562.4	6774.6	7078.4	7500.5	8061.2	8175.0	8577.1	8449.7
15°	6035.3	6059.8	6117.8	6278.8	6504.3	6805.9	7239.3	7849.0	7985.3	8552.6	8490.1
17.5°	5934.7	5961.5	5979.4	6095.5	6301.0	6596.0	7040.3	7710.5	7864.7	8566.0	8568.3
20°	6039.8	6059.8	6019.6	6048.6	6175.9	6439.5	6872.8	7592.0	7775.3	8581.6	8668.7
22.5°	6430.5	6439.5	6330.0	6202.7	6180.5	6325.7	6741.2	7498.3	7694.8	8624.1	8787.1
25°	7100.7	7085.0	6906.3	6631.6	6372.5	6305.6	6662.9	7440.2	7654.6	8668.7	8909.8
27.5°	7909.2	7931.7	7685.9	7286.2	6792.4	6439.5	6651.7	7415.7	7636.9	8699.9	9017.1
30°	8892.1	8923.4	8642.0	8139.4	7431.3	6770.2	6754.4	7411.1	7625.6	8679.9	9026.1
32.5°	9895.0	9933.0	9711.8	9193.7	8284.4	7324.2	6986.7	7460.3	7647.9	8610.7	8974.6
35°	10944.8	10998.4	10850.9	10406.4	9441.5	8123.7	7395.6	7610.0	7752.9	8604.0	8923.4
37.5°	12394.5	12443.5	12166.6	11695.3	10842.1	9195.8	8052.2	7891.4	8000.8	8711.1	8936.8
40°	14558.8	14552.1	13837.3	13115.9	12381.0	10558.4	8974.6	8400.7	8456.6	9035.1	9102.0
42.5°	16917.5	16906.3	15849.9	14753.1	14089.7	12235.9	10187.6	9280.7	9242.8	9631.4	9530.8
45°	18735.7	18733.4	17871.2	16636.0	16146.9	14161.2	11755.6	10504.8	10446.7	10600.8	10321.5
47.5°	19510.7	19524.1	19090.8	18221.8	18427.4	16765.5	13732.3	12278.3	12191.2	12128.6	11704.1
50°	18907.6	18934.5	18970.1	18800.4	20100.5	20265.8	16383.6	14777.7	14735.3	14456.1	13792.7
52.5°	16937.6	17073.8	17493.8	18032.0	20681.1	23625.1	20540.5	17882.4	17654.6	17357.5	16627.1
55°	13618.5	13768.1	14565.5	15872.2	19816.7	25831.9	26365.8	21885.0	21505.3	20618.5	19564.4
57.5°	9012.6	9244.9	10402.1	12063.8	17306.1	26187.0	32177.6	27440.0	26117.9	23689.8	22501.6
60°	4965.3	5188.7	6444.0	7949.6	12499.3	24431.5	36086.5	34672.6	32336.2	27123.0	26068.6
62.5°	3057.8	3178.5	4105.4	5505.9	7496.0	19282.8	36895.0	43761.2	41056.2	31543.3	30377.4
65°	2434.6	2486.0	2939.4	4500.8	5374.1	11469.6	34284.0	50689.9	49787.5	36895.0	34234.8
67°	2363.3	2383.3	2597.7	3864.1	5065.8	7031.5	28722.1	51817.9	52733.7	40133.8	34355.4
67.5°	2378.8	2401.2	2604.4	3687.7	5056.9	6461.9	26805.8	51373.3	52530.5	40390.8	33821.5
70°	2293.9	2363.3	2982.0	3685.4	4808.9	5369.7	16053.2	44511.7	45715.6	37529.4	28697.7
72.5°	813.1	817.5	1288.8	2982.0	5228.9	5427.6	8061.2	32631.0	33522.3	28708.8	20690.1
75°	482.5	411.0	428.9	848.8	4996.6	5271.3	4650.4	20850.9	21183.7	16450.8	10477.9
77.5°	332.8	290.4	299.3	375.2	1903.1	5197.7	3694.4	10873.4	10518.2	5769.5	2231.4
80°	189.8	167.5	178.8	328.3	692.5	4849.2	3484.4	4409.2	3759.1	978.3	616.4
82.5°	100.5	84.9	102.8	270.3	482.5	3022.1	3491.2	2130.9	1688.6	330.5	419.9
85°	35.8	29.0	49.1	185.4	321.7	927.0	3236.6	1791.4	1407.1	160.8	319.3
87.5°	6.6	6.6	20.1	75.9	129.5	283.7	1914.2	1063.2	712.5	96.1	218.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8445.3	8445.3	8445.3	8445.3	8445.3	8445.3	8445.3	8445.3	8445.3	8445.3	8445.3
2.5°	8418.6	8322.4	8192.9	8034.4	7846.8	7681.4	7558.6	7431.3	7404.5	7359.9	7353.0
5°	8362.7	8197.5	7875.8	7507.2	7114.0	6758.9	6470.9	6213.9	6100.0	6001.8	5990.5
7.5°	8280.0	8032.1	7484.9	6890.8	6276.5	5718.2	5244.6	4909.4	4601.3	4453.8	4431.5
10°	8184.0	7828.9	7044.9	6220.7	5371.9	4583.4	3879.8	3290.1	2932.7	2720.5	2693.7
12.5°	8094.6	7630.1	6596.0	5526.1	4398.0	3343.8	2439.1	1876.2	1501.0	1349.2	1331.3
15°	8052.2	7469.2	6175.9	4815.8	3379.5	2128.7	1333.4	1032.0	909.1	873.3	871.1
17.5°	8047.7	7333.0	5765.1	4080.8	2367.7	1237.4	868.9	792.9	768.4	759.4	759.4
20°	8045.5	7203.5	5354.0	3319.1	1503.3	824.3	723.7	705.8	687.9	676.9	676.9
22.5°	8070.2	7087.3	4925.1	2541.8	947.1	667.9	636.5	618.8	596.4	580.8	578.5
25°	8094.6	6997.9	4487.4	1809.2	685.8	580.8	549.5	524.9	493.6	473.5	471.3
27.5°	8099.1	6886.2	4018.3	1210.6	574.0	507.1	466.8	428.9	393.1	373.1	370.8
30°	8032.1	6698.7	3497.9	817.5	507.1	440.0	386.5	346.1	312.7	297.1	297.1
32.5°	7900.4	6466.4	2926.0	616.4	451.2	377.5	319.3	281.3	259.2	252.5	250.2
35°	7781.9	6216.2	2338.6	522.6	404.2	319.3	261.3	236.8	223.4	221.2	218.8
37.5°	7712.7	6015.2	1786.9	473.5	359.6	268.1	221.2	203.2	196.5	192.1	194.4
40°	7766.3	5847.6	1320.1	433.3	314.9	223.4	187.7	178.8	171.9	169.8	169.8
42.5°	8000.8	5818.6	980.6	397.6	272.5	185.4	163.0	156.3	152.0	149.7	152.0
45°	8617.4	5997.3	761.7	364.2	230.1	156.3	138.5	136.3	133.9	133.9	133.9
47.5°	9544.3	6365.7	634.4	326.2	192.1	133.9	120.6	118.3	116.2	118.3	118.3
50°	11114.5	7040.3	567.3	288.1	158.6	113.9	102.8	102.8	102.8	102.8	105.0
52.5°	13502.2	8367.2	522.6	250.2	129.5	96.1	87.1	87.1	89.3	89.3	91.5
55°	16162.6	10127.2	482.5	212.2	109.5	80.4	71.4	73.8	75.9	78.2	78.2
57.5°	19048.4	12077.3	449.0	174.2	93.9	64.8	60.2	62.5	64.8	69.2	69.2
60°	22530.6	14188.0	399.8	136.3	78.2	51.4	46.9	51.4	58.1	62.5	64.8
62.5°	26354.6	16229.6	337.3	107.2	64.8	40.2	38.0	46.9	55.9	60.2	62.5
65°	28968.0	16870.6	259.2	87.1	49.1	29.0	31.4	42.4	53.5	60.2	60.2
67°	27909.3	15295.9	212.2	73.8	40.2	22.4	29.0	42.4	53.5	58.1	60.2
67.5°	27174.3	14679.5	203.2	71.4	38.0	22.4	29.0	42.4	53.5	60.2	60.2
70°	22110.7	11027.5	169.8	53.5	31.4	20.1	24.6	40.2	51.4	58.1	58.1
72.5°	15363.0	6799.1	152.0	38.0	26.8	17.8	22.4	38.0	49.1	55.9	58.1
75°	7303.9	2461.4	129.5	29.0	24.6	15.6	20.1	38.0	49.1	55.9	55.9
77.5°	1489.7	571.9	105.0	24.6	20.1	15.6	17.8	35.8	46.9	53.5	53.5
80°	489.1	221.2	78.2	22.4	20.1	15.6	17.8	33.4	46.9	51.4	53.5
82.5°	352.9	111.7	51.4	22.4	20.1	15.6	15.6	33.4	44.6	51.4	51.4
85°	270.3	78.2	33.4	22.4	20.1	15.6	15.6	31.4	42.4	49.1	49.1
87.5°	178.8	31.4	26.8	22.4	20.1	15.6	15.6	31.4	40.2	46.9	49.1
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)