

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: P323961

Luminaire Tested: **GAN-SA7B-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323961
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-SA7B-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA 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: 24116 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

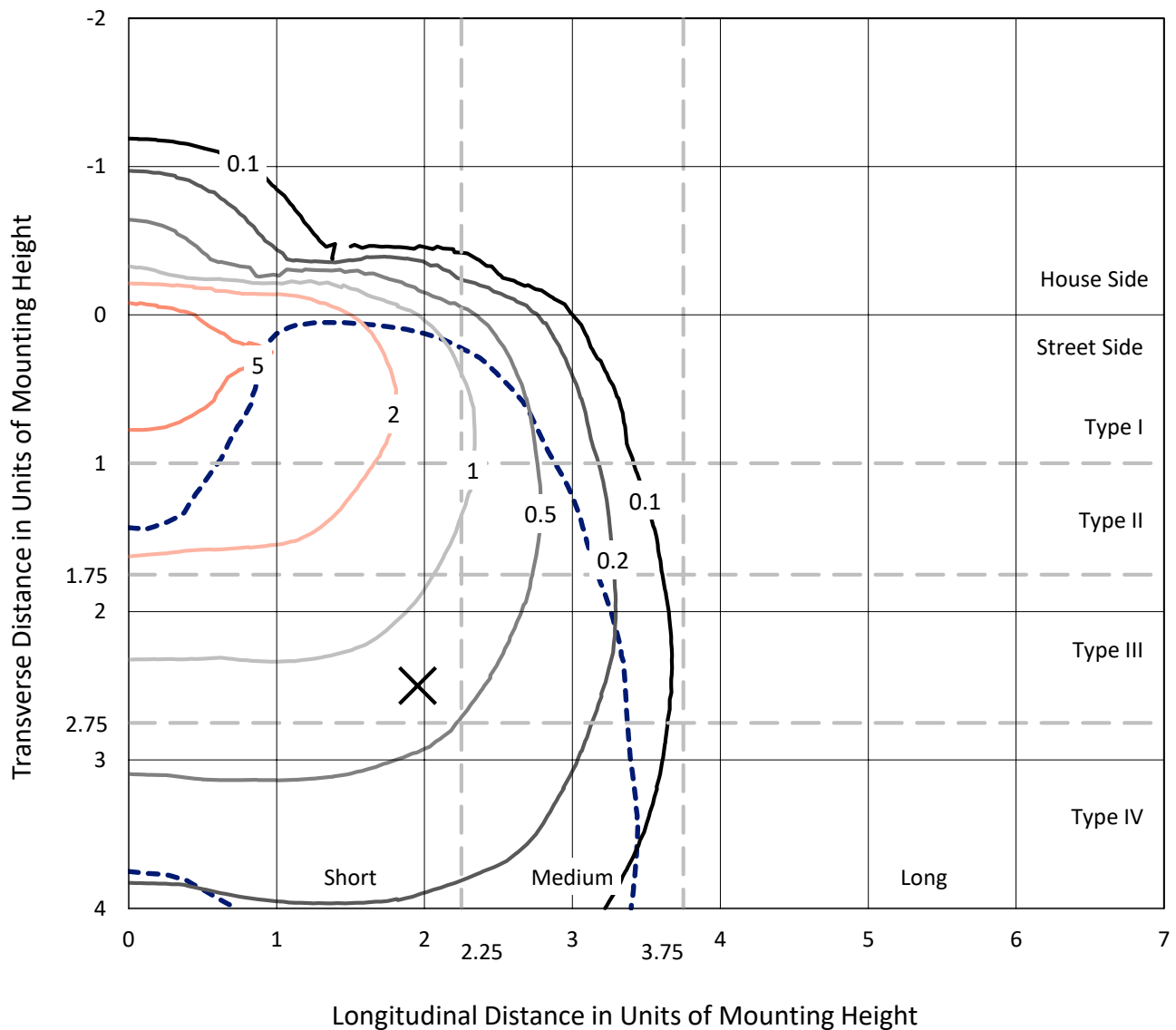
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

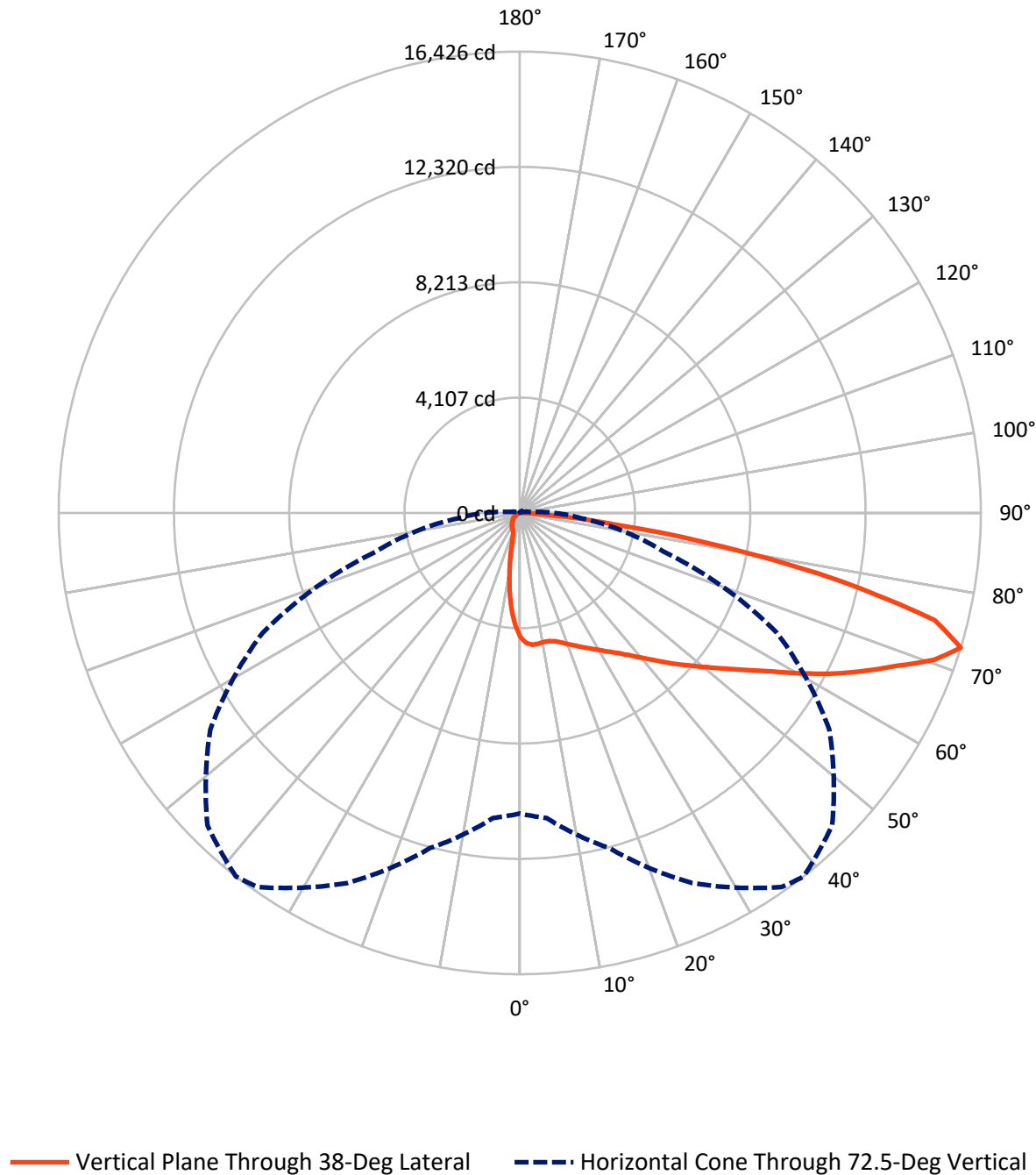
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2029.4	0.0	2029.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	22086.5	0.0	22086.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	24116.0	0.0	24116.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.9	1.6
10°-20°	924.1	3.8
20°-30°	1469.8	6.1
30°-40°	2209.7	9.2
40°-50°	3371.1	14.0
50°-60°	4764.5	19.8
60°-70°	5976.2	24.8
70°-80°	4468.5	18.5
80°-90°	554.1	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°	24116.0	100.0
0°-180°	24116.0	100.0

Coefficient of Utilization



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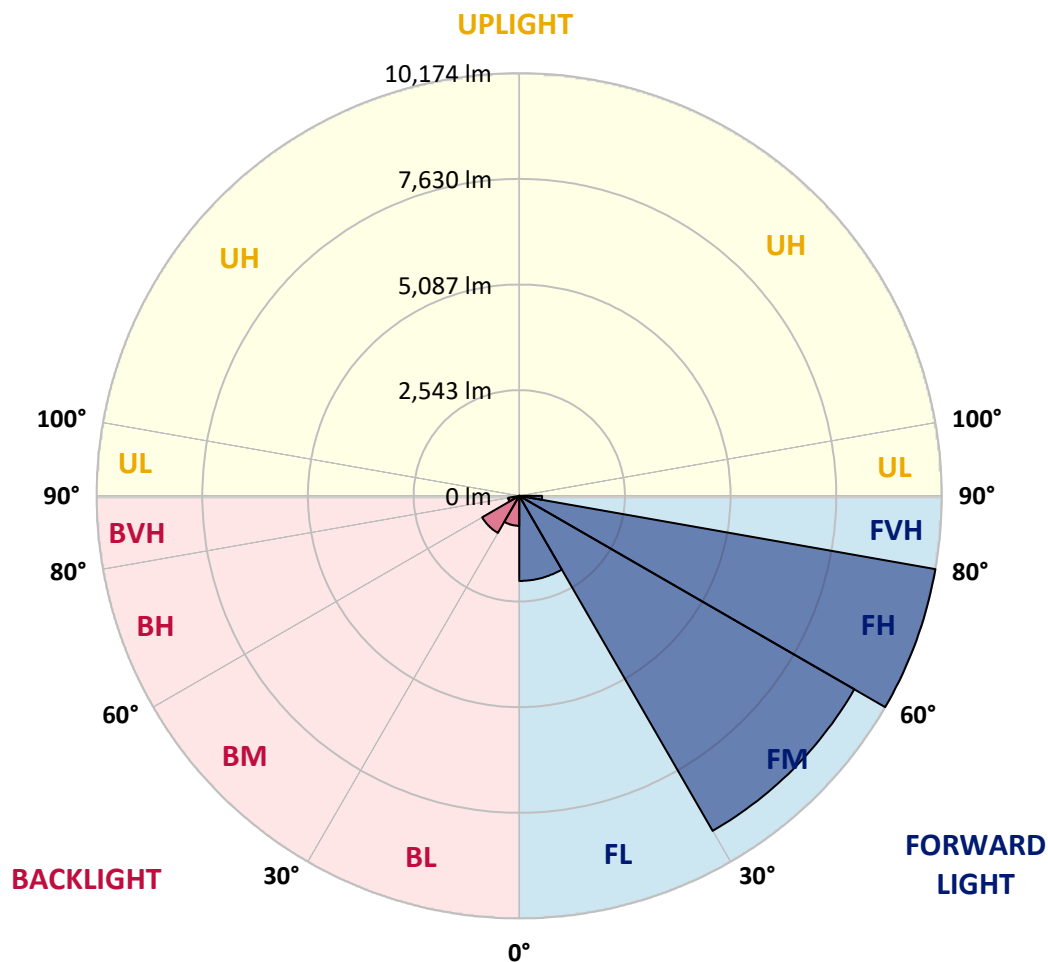
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2049.3	8.5			
FM	(30°-60°)	9314.7	38.6			
FH	(60°-80°)	10173.7	42.2			G4/12000
FVH	(80°-90°)	548.9	2.3			G4/750
BL	(0°-30°)	722.6	3.0	B2/1000		
BM	(30°-60°)	1030.6	4.3	B2/2500		
BH	(60°-80°)	271.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4434.9	4434.9	4434.9	4434.9	4434.9	4434.9	4434.9	4434.9	4434.9	4434.9	4434.9
2.5°	4707.3	4708.3	4697.3	4679.2	4656.2	4644.2	4624.1	4592.1	4558.0	4496.9	4430.8
5°	4803.4	4803.4	4789.4	4765.4	4728.3	4717.3	4679.2	4628.2	4558.0	4458.9	4347.7
7.5°	4793.4	4795.4	4776.4	4751.3	4714.3	4704.3	4658.2	4601.1	4514.0	4393.8	4251.6
10°	4741.3	4746.3	4731.3	4719.3	4685.2	4674.2	4631.2	4574.1	4486.9	4358.7	4195.5
12.5°	4688.2	4693.3	4698.3	4709.3	4688.2	4684.2	4650.2	4602.1	4519.0	4385.8	4201.5
15°	4654.2	4664.2	4700.3	4743.3	4748.3	4744.3	4722.3	4677.2	4593.1	4454.9	4244.6
17.5°	4654.2	4670.2	4745.3	4827.5	4856.5	4859.5	4840.5	4777.4	4677.2	4529.0	4284.6
20°	4693.3	4715.3	4832.5	4948.6	4996.7	4996.7	4959.7	4871.5	4754.3	4596.1	4311.7
22.5°	4793.4	4822.5	4969.7	5103.9	5155.0	5143.9	5093.9	4965.7	4834.5	4672.2	4345.7
25°	4990.7	5012.7	5166.0	5301.2	5332.2	5307.2	5244.1	5079.8	4936.6	4775.4	4407.8
27.5°	5245.1	5248.1	5406.4	5520.5	5501.5	5484.5	5405.4	5223.1	5083.9	4922.6	4515.0
30°	5524.5	5524.5	5663.8	5750.9	5692.8	5678.8	5599.7	5396.3	5272.1	5122.9	4667.2
32.5°	5795.0	5807.0	5920.1	5975.2	5910.1	5896.1	5819.0	5615.7	5522.5	5428.4	4904.6
35°	6056.4	6065.4	6172.5	6202.6	6140.5	6144.5	6089.4	5917.1	5882.1	5870.1	5262.1
37.5°	6309.8	6311.8	6420.9	6440.0	6408.9	6443.0	6448.0	6295.7	6360.8	6458.0	5765.9
40°	6541.1	6543.1	6651.3	6700.4	6753.4	6797.5	6836.6	6755.4	6970.8	7196.1	6365.8
42.5°	6726.4	6747.4	6884.6	6977.8	7118.0	7202.1	7308.3	7304.3	7696.9	8035.4	7091.0
45°	6889.6	6925.7	7117.0	7280.2	7520.6	7654.8	7821.1	7951.3	8514.2	8969.9	7825.1
47.5°	7105.0	7139.0	7357.4	7624.8	7945.3	8121.5	8397.0	8678.4	9412.5	9887.3	8542.2
50°	7408.4	7393.4	7608.8	7992.4	8404.0	8635.3	9028.0	9449.6	10303.9	10686.5	8963.9
52.5°	7731.9	7725.9	7885.2	8392.0	8944.8	9215.2	9734.0	10246.8	11156.2	11237.4	9157.1
55°	8132.6	8089.5	8223.7	8847.7	9586.8	9877.3	10488.2	11036.1	11835.3	11547.8	9254.3
57.5°	8552.2	8481.1	8609.3	9355.5	10310.9	10654.5	11323.5	11805.2	12287.0	11760.2	9253.3
60°	8985.9	8901.8	9054.0	9990.4	11210.3	11607.9	12228.9	12325.0	12708.6	11867.3	9185.2
62.5°	9348.4	9298.4	9524.7	10669.5	12214.9	12605.5	12913.0	12797.8	13064.2	11950.5	9025.9
65°	9732.0	9735.0	10100.6	11461.7	13282.5	13545.9	13572.0	13410.7	13361.6	11933.4	8487.1
67.5°	10250.8	10298.9	10908.9	12537.4	14321.1	14524.4	14522.4	14074.7	13579.0	11256.4	7292.3
70°	10799.7	10912.9	11840.3	13768.3	15454.9	15661.2	15555.0	14497.4	12785.8	9102.1	5161.0
72.5°	10707.5	10903.8	12358.1	14544.5	16269.1	16426.4	15736.3	13458.8	10105.6	5290.2	2197.4
75°	8260.8	8488.1	11331.5	13775.3	15414.8	15273.6	13520.9	10473.2	5522.5	1476.3	494.8
77.5°	4363.7	4484.9	7485.6	10494.2	12019.6	11724.1	9524.7	5810.0	1683.6	365.6	222.3
80°	2285.5	2313.6	3262.0	5954.2	7418.5	7420.5	5644.7	2551.9	694.1	187.3	149.2
82.5°	1223.9	1247.9	1723.7	2751.3	3887.0	3523.4	2161.3	1404.2	403.6	106.2	143.2
85°	294.5	299.5	977.5	1256.9	1528.4	1091.7	642.0	1178.8	109.2	62.1	116.2
87.5°	113.2	115.2	362.6	543.8	389.6	252.4	300.5	439.7	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4434.9	4434.9	4434.9	4434.9	4434.9	4434.9	4434.9	4434.9	4434.9	4434.9	4434.9
2.5°	4390.8	4364.7	4300.6	4219.5	4147.4	4095.3	4017.2	3966.1	3932.1	3931.1	3918.1
5°	4279.6	4226.5	4088.3	3924.1	3774.8	3640.6	3482.4	3357.2	3264.0	3249.0	3217.0
7.5°	4160.4	4073.3	3861.0	3604.6	3354.2	3099.8	2804.3	2621.1	2463.8	2388.7	2380.7
10°	4087.3	3965.1	3663.7	3293.1	2900.5	2486.8	2100.2	1832.8	1639.5	1584.4	1543.4
12.5°	4072.3	3911.0	3511.4	3000.6	2439.8	1892.9	1465.3	1180.8	1026.6	977.5	964.5
15°	4087.3	3886.0	3383.2	2711.2	1973.0	1343.1	983.5	818.3	760.2	746.2	745.2
17.5°	4096.3	3856.0	3238.0	2389.7	1520.3	959.5	753.2	705.1	696.1	695.1	697.1
20°	4095.3	3809.9	3064.7	2031.1	1130.7	754.2	681.1	671.0	669.0	670.0	669.0
22.5°	4088.3	3755.8	2874.4	1661.6	854.3	674.0	650.0	644.0	643.0	643.0	643.0
25°	4101.3	3712.7	2665.1	1308.0	704.1	637.0	622.0	617.0	616.0	616.0	613.9
27.5°	4148.4	3688.7	2435.8	1006.6	636.0	603.9	591.9	590.9	587.9	586.9	588.9
30°	4224.5	3688.7	2184.4	783.2	594.9	569.9	560.9	558.9	557.9	556.9	557.9
32.5°	4358.7	3716.7	1910.0	651.0	555.9	531.8	525.8	528.8	525.8	525.8	525.8
35°	4601.1	3800.9	1622.5	567.9	514.8	494.8	488.8	492.8	490.8	490.8	489.8
37.5°	4954.7	3957.1	1333.1	517.8	478.7	457.7	449.7	455.7	453.7	453.7	452.7
40°	5385.3	4184.5	1057.6	479.7	443.7	421.7	414.6	417.6	412.6	412.6	414.6
42.5°	5917.1	4472.9	817.3	442.7	408.6	387.6	383.6	380.6	371.6	366.6	367.6
45°	6508.1	4773.4	637.0	406.6	375.6	358.6	352.5	344.5	329.5	319.5	320.5
47.5°	7035.9	5004.7	517.8	371.6	345.5	332.5	323.5	308.5	286.4	274.4	275.4
50°	7313.3	5039.8	440.7	336.5	317.5	304.5	291.5	268.4	242.4	229.4	228.4
52.5°	7384.4	4875.5	383.6	304.5	289.4	274.4	257.4	226.3	197.3	183.3	181.3
55°	7410.5	4625.1	332.5	274.4	259.4	242.4	220.3	185.3	158.2	144.2	143.2
57.5°	7324.3	4251.6	292.5	247.4	229.4	208.3	181.3	148.2	122.2	111.2	111.2
60°	7133.0	3745.8	261.4	218.3	198.3	174.3	146.2	115.2	91.1	82.1	82.1
62.5°	6751.4	3090.8	232.4	188.3	169.3	144.2	118.2	87.1	64.1	59.1	60.1
65°	6031.3	2344.6	203.3	161.2	144.2	119.2	92.1	62.1	43.1	43.1	45.1
67.5°	4918.6	1628.5	173.3	137.2	124.2	97.2	70.1	43.1	30.0	34.1	38.1
70°	3256.0	913.4	148.2	113.2	106.2	77.1	52.1	29.0	24.0	32.0	39.1
72.5°	1228.9	355.5	124.2	91.1	92.1	59.1	37.1	22.0	22.0	35.1	46.1
75°	342.5	174.3	89.1	67.1	72.1	43.1	27.0	19.0	21.0	40.1	54.1
77.5°	201.3	128.2	58.1	39.1	49.1	30.0	18.0	15.0	18.0	34.1	52.1
80°	162.3	68.1	34.1	20.0	27.0	17.0	12.0	9.0	5.0	13.0	27.0
82.5°	162.3	41.1	16.0	14.0	14.0	9.0	6.0	4.0	1.0	0.0	7.0
85°	109.2	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)