

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: P323841

Luminaire Tested: **GAN-SA7B-740-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323841
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-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 32806 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

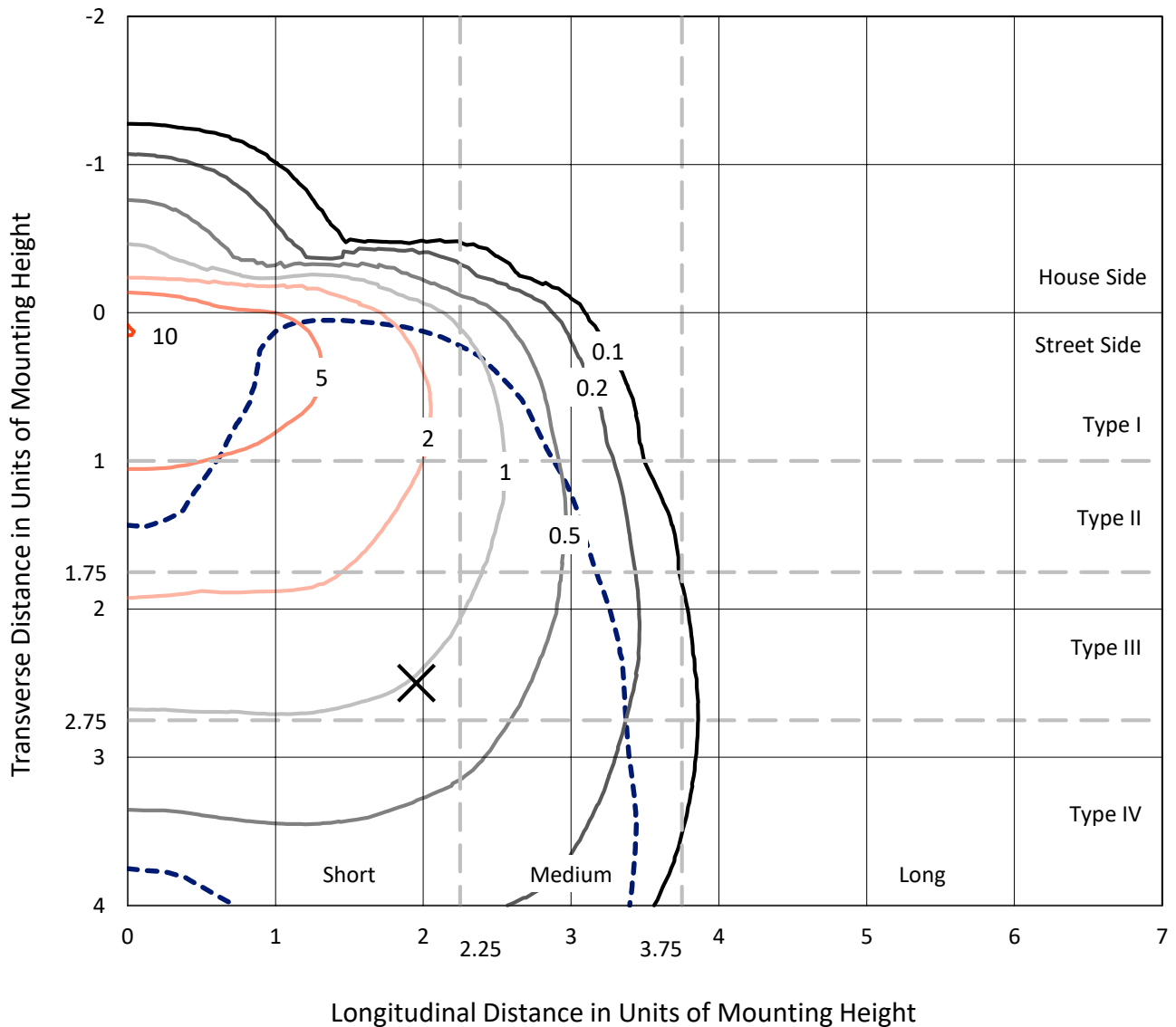
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

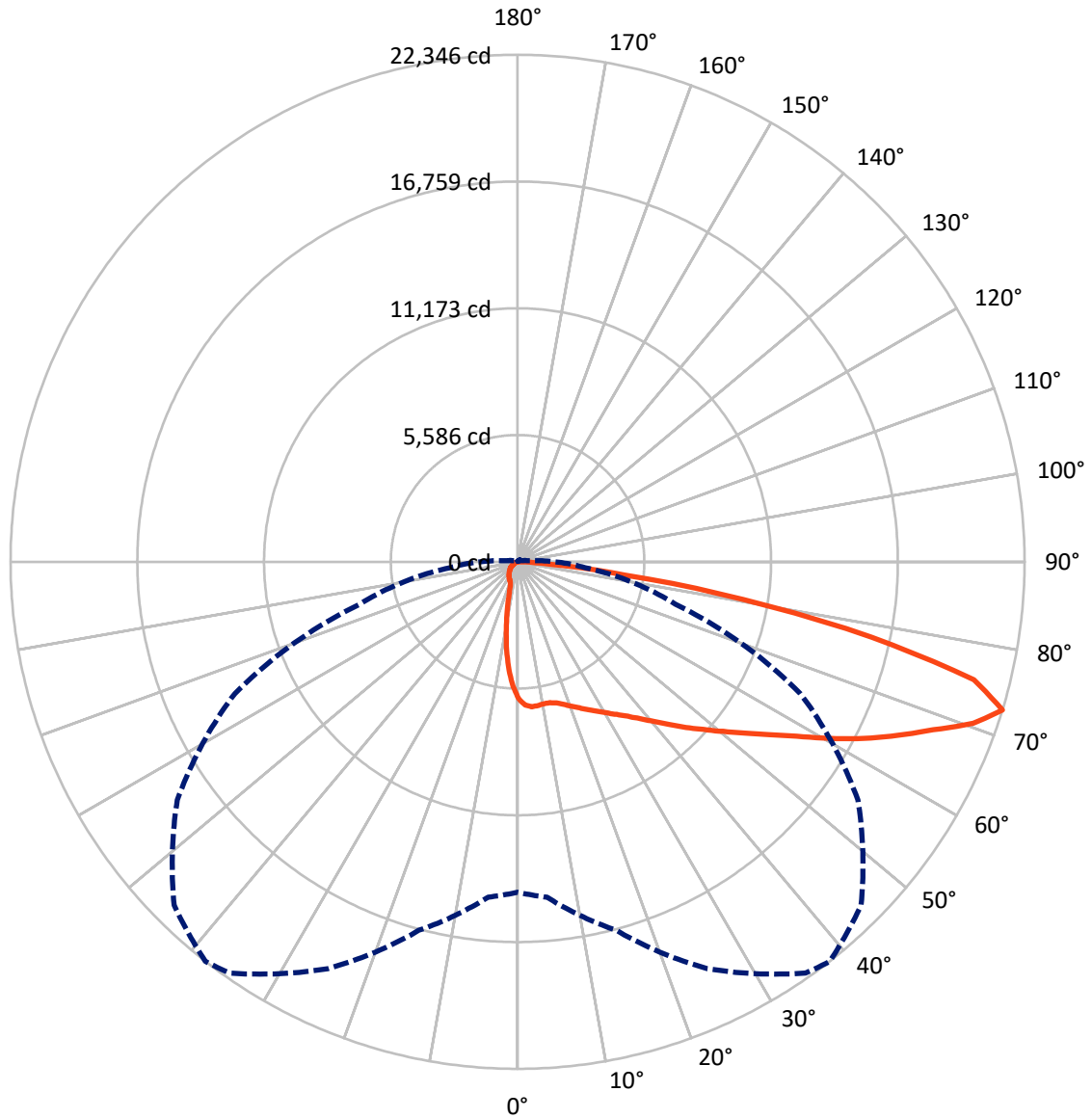
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2760.7	0.0	2760.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	30045.3	0.0	30045.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	32806.0	0.0	32806.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.1	1.6
10°-20°	1257.1	3.8
20°-30°	1999.5	6.1
30°-40°	3006.0	9.2
40°-50°	4585.8	14.0
50°-60°	6481.3	19.8
60°-70°	8129.7	24.8
70°-80°	6078.7	18.5
80°-90°	753.7	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°	32806.0	100.0
0°-180°	32806.0	100.0

Coefficient of Utilization

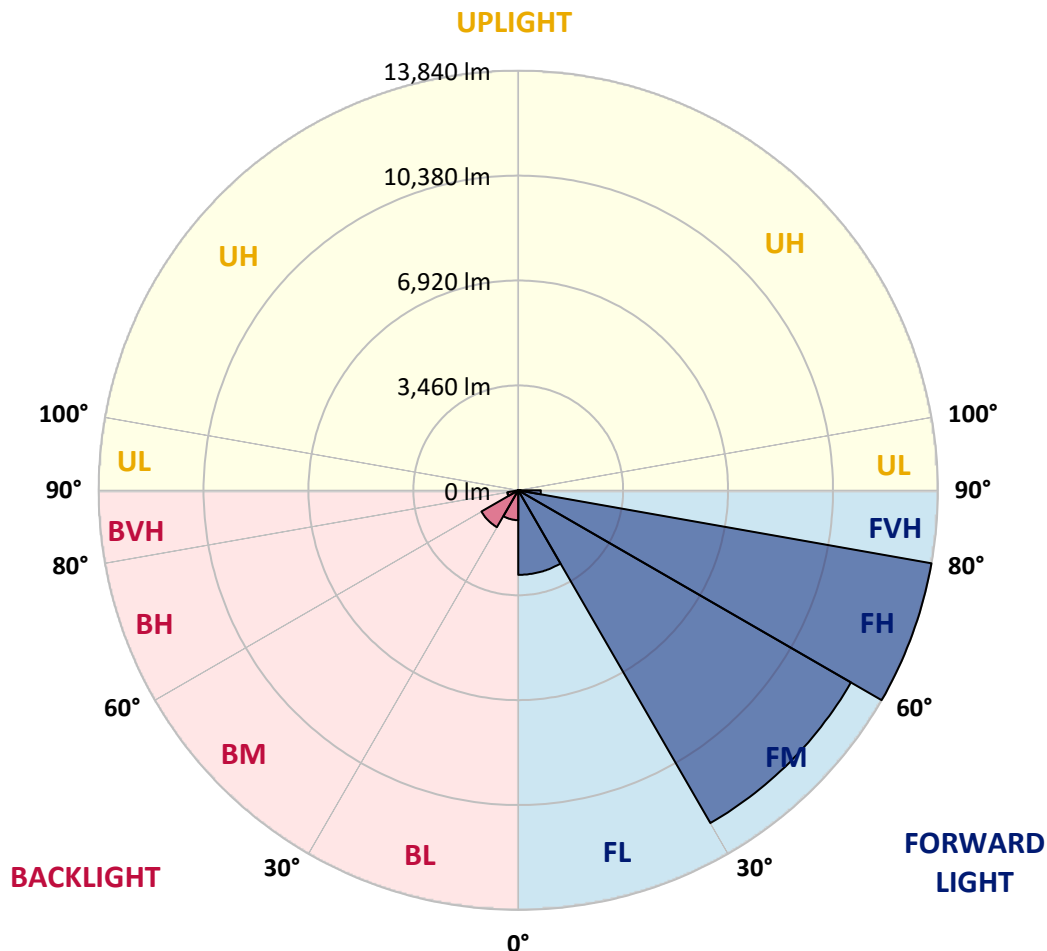


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2787.7	8.5			
FM (30°-60°)	12671.1	38.6			
FH (60°-80°)	13839.7	42.2			G5
FVH (80°-90°)	746.7	2.3			G4/750
BL (0°-30°)	983.0	3.0	B2/1000		
BM (30°-60°)	1401.9	4.3	B2/2500		
BH (60°-80°)	368.8	1.1	B1/500		G1/500
BVH (80°-90°)	7.0	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6032.9	6032.9	6032.9	6032.9	6032.9	6032.9	6032.9	6032.9	6032.9	6032.9	6032.9
2.5°	6403.5	6404.9	6389.9	6365.4	6334.0	6317.7	6290.4	6246.8	6200.5	6117.4	6027.5
5°	6534.3	6534.3	6515.2	6482.5	6432.1	6417.1	6365.4	6295.9	6200.5	6065.6	5914.4
7.5°	6520.7	6523.4	6497.5	6463.4	6413.0	6399.4	6336.7	6259.1	6140.5	5977.1	5783.6
10°	6449.8	6456.6	6436.2	6419.9	6373.5	6358.5	6300.0	6222.3	6103.8	5929.4	5707.3
12.5°	6377.6	6384.4	6391.2	6406.2	6377.6	6372.2	6325.8	6260.4	6147.4	5966.2	5715.5
15°	6331.3	6344.9	6394.0	6452.5	6459.4	6453.9	6423.9	6362.6	6248.2	6060.2	5774.1
17.5°	6331.3	6353.1	6455.3	6567.0	6606.5	6610.6	6584.7	6498.9	6362.6	6161.0	5828.5
20°	6384.4	6414.4	6573.8	6731.9	6797.2	6797.2	6746.8	6626.9	6467.5	6252.3	5865.3
22.5°	6520.7	6560.2	6760.5	6943.0	7012.5	6997.5	6929.4	6755.0	6576.5	6355.8	5911.7
25°	6789.1	6819.0	7027.5	7211.4	7253.7	7219.6	7133.8	6910.3	6715.5	6496.1	5996.1
27.5°	7135.1	7139.2	7354.5	7509.8	7483.9	7460.8	7353.1	7105.2	6915.8	6696.4	6141.9
30°	7515.3	7515.3	7704.6	7823.2	7744.1	7725.1	7617.4	7340.9	7171.9	6968.9	6349.0
32.5°	7883.1	7899.5	8053.4	8128.4	8039.8	8020.7	7915.8	7639.2	7512.5	7384.5	6671.9
35°	8238.7	8251.0	8396.8	8437.6	8353.2	8358.6	8283.7	8049.3	8001.7	7985.3	7158.3
37.5°	8583.4	8586.1	8734.6	8760.5	8718.3	8764.6	8771.4	8564.3	8652.9	8785.1	7843.6
40°	8898.1	8900.9	9048.0	9114.8	9187.0	9246.9	9300.1	9189.7	9482.6	9789.2	8659.7
42.5°	9150.2	9178.8	9365.5	9492.2	9682.9	9797.4	9941.8	9936.3	10470.4	10930.9	9646.1
45°	9372.3	9421.3	9681.5	9903.6	10230.6	10413.2	10639.3	10816.5	11582.2	12202.1	10644.8
47.5°	9665.2	9711.5	10008.5	10372.3	10808.3	11048.1	11422.8	11805.6	12804.3	13450.1	11620.3
50°	10078.0	10057.6	10350.5	10872.3	11432.3	11747.0	12281.1	12854.7	14016.9	14537.3	12193.9
52.5°	10518.1	10509.9	10726.5	11415.9	12168.0	12535.9	13241.6	13939.2	15176.3	15286.7	12456.9
55°	11063.1	11004.5	11187.1	12035.9	13041.3	13436.5	14267.5	15012.8	16100.0	15709.0	12589.0
57.5°	11633.9	11537.2	11711.6	12726.6	14026.4	14493.7	15403.8	16059.2	16714.5	15997.9	12587.6
60°	12223.9	12109.4	12316.5	13590.4	15249.9	15790.8	16635.5	16766.3	17288.1	16143.6	12495.0
62.5°	12717.1	12649.0	12956.9	14514.1	16616.4	17147.8	17566.0	17409.3	17771.8	16256.7	12278.4
65°	13238.9	13243.0	13740.3	15591.8	18068.8	18427.1	18462.5	18243.2	18176.4	16233.6	11545.4
67.5°	13944.6	14010.0	14839.8	17055.1	19481.6	19758.2	19755.5	19146.5	18472.1	15312.5	9920.0
70°	14691.3	14845.2	16106.8	18729.6	21023.9	21304.6	21160.2	19721.4	17393.0	12381.9	7020.7
72.5°	14565.9	14833.0	16811.2	19785.5	22131.6	22345.5	21406.8	18308.6	13747.1	7196.4	2989.2
75°	11237.5	11546.7	15414.7	18739.1	20969.4	20777.3	18393.0	14247.1	7512.5	2008.2	673.0
77.5°	5936.2	6101.0	10182.9	14275.7	16350.7	15948.8	12956.9	7903.6	2290.3	497.3	302.5
80°	3109.1	3147.3	4437.5	8099.7	10091.6	10094.4	7678.8	3471.5	944.2	254.8	203.0
82.5°	1664.9	1697.6	2344.8	3742.6	5287.7	4793.1	2940.2	1910.2	549.1	144.4	194.8
85°	400.6	407.4	1329.7	1709.9	2079.1	1485.1	873.3	1603.6	148.5	84.5	158.0
87.5°	154.0	156.7	493.2	739.8	530.0	343.3	408.7	598.1	19.1	32.7	24.5
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°	6032.9	6032.9	6032.9	6032.9	6032.9	6032.9	6032.9	6032.9	6032.9	6032.9	6032.9
2.5°	5973.0	5937.5	5850.3	5740.0	5641.9	5571.0	5464.8	5395.3	5349.0	5347.6	5329.9
5°	5821.7	5749.5	5561.5	5338.1	5135.1	4952.5	4737.2	4566.9	4440.2	4419.8	4376.2
7.5°	5659.6	5541.1	5252.2	4903.4	4562.8	4216.8	3814.9	3565.5	3351.6	3249.4	3238.5
10°	5560.1	5393.9	4983.8	4479.7	3945.6	3383.0	2857.1	2493.3	2230.3	2155.4	2099.5
12.5°	5539.7	5320.4	4776.7	4081.9	3318.9	2575.0	1993.3	1606.3	1396.5	1329.7	1312.0
15°	5560.1	5286.3	4602.3	3688.1	2684.0	1827.0	1337.9	1113.1	1034.1	1015.0	1013.7
17.5°	5572.4	5245.4	4404.8	3250.8	2068.2	1305.2	1024.6	959.2	946.9	945.5	948.3
20°	5571.0	5182.7	4169.1	2763.0	1538.2	1025.9	926.5	912.8	910.1	911.5	910.1
22.5°	5561.5	5109.2	3910.2	2260.3	1162.2	916.9	884.2	876.1	874.7	874.7	874.7
25°	5579.2	5050.6	3625.5	1779.4	957.8	866.5	846.1	839.3	837.9	837.9	835.2
27.5°	5643.3	5017.9	3313.5	1369.3	865.2	821.6	805.2	803.8	799.8	798.4	801.1
30°	5746.8	5017.9	2971.5	1065.4	809.3	775.2	763.0	760.2	758.9	757.5	758.9
32.5°	5929.4	5056.0	2598.2	885.6	756.2	723.5	715.3	719.4	715.3	715.3	715.3
35°	6259.1	5170.5	2207.2	772.5	700.3	673.0	664.9	670.3	667.6	667.6	666.2
37.5°	6740.0	5383.0	1813.4	704.4	651.2	622.6	611.7	619.9	617.2	617.2	615.8
40°	7325.9	5692.3	1438.7	652.6	603.6	573.6	564.1	568.1	561.3	561.3	564.1
42.5°	8049.3	6084.7	1111.8	602.2	555.9	527.3	521.8	517.7	505.5	498.7	500.0
45°	8853.2	6493.4	866.5	553.2	510.9	487.8	479.6	468.7	448.2	434.6	436.0
47.5°	9571.2	6808.1	704.4	505.5	470.0	452.3	440.1	419.6	389.7	373.3	374.7
50°	9948.6	6855.8	599.5	457.8	431.9	414.2	396.5	365.1	329.7	312.0	310.6
52.5°	10045.3	6632.4	521.8	414.2	393.7	373.3	350.1	307.9	268.4	249.3	246.6
55°	10080.7	6291.8	452.3	373.3	352.9	329.7	299.7	252.1	215.3	196.2	194.8
57.5°	9963.6	5783.6	397.8	336.5	312.0	283.4	246.6	201.6	166.2	151.2	151.2
60°	9703.3	5095.6	355.6	297.0	269.8	237.1	198.9	156.7	124.0	111.7	111.7
62.5°	9184.3	4204.5	316.1	256.1	230.3	196.2	160.8	118.5	87.2	80.4	81.7
65°	8204.7	3189.5	276.6	219.4	196.2	162.1	125.3	84.5	58.6	58.6	61.3
67.5°	6691.0	2215.3	235.7	186.7	168.9	132.2	95.4	58.6	40.9	46.3	51.8
70°	4429.3	1242.6	201.6	154.0	144.4	104.9	70.8	39.5	32.7	43.6	53.1
72.5°	1671.7	483.7	168.9	124.0	125.3	80.4	50.4	30.0	30.0	47.7	62.7
75°	466.0	237.1	121.3	91.3	98.1	58.6	36.8	25.9	28.6	54.5	73.6
77.5°	273.9	174.4	79.0	53.1	66.8	40.9	24.5	20.4	24.5	46.3	70.8
80°	220.7	92.6	46.3	27.2	36.8	23.2	16.3	12.3	6.8	17.7	36.8
82.5°	220.7	55.9	21.8	19.1	19.1	12.3	8.2	5.4	1.4	0.0	9.5
85°	148.5	23.2	13.6	12.3	9.5	4.1	2.7	1.4	0.0	0.0	0.0
87.5°	24.5	9.5	5.4	2.7	1.4	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)