

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: P268847

Luminaire Tested: **GAN-AF-09-LED-U-SL4-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
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-SL4-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA 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: 41162.3 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 575
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

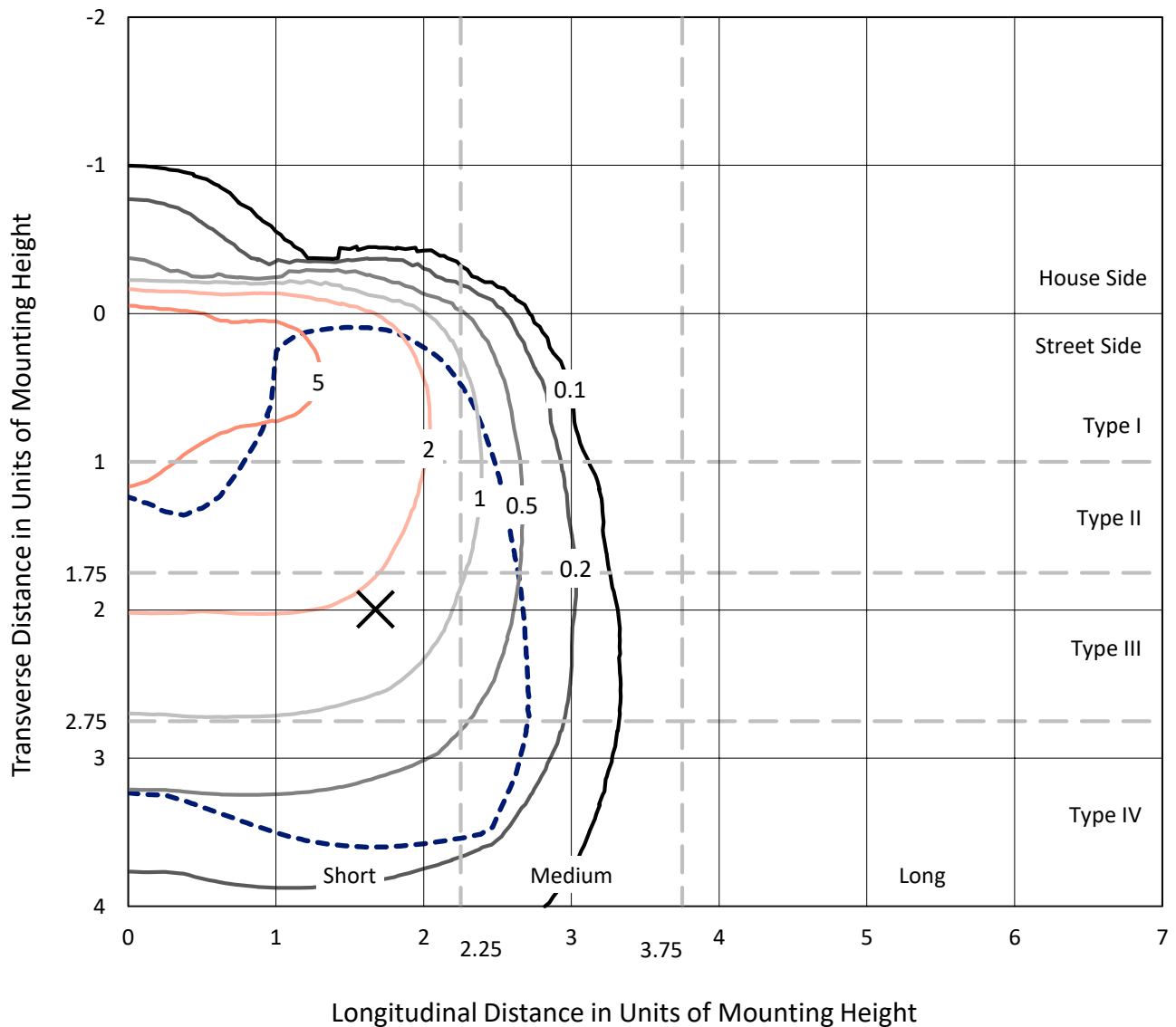


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

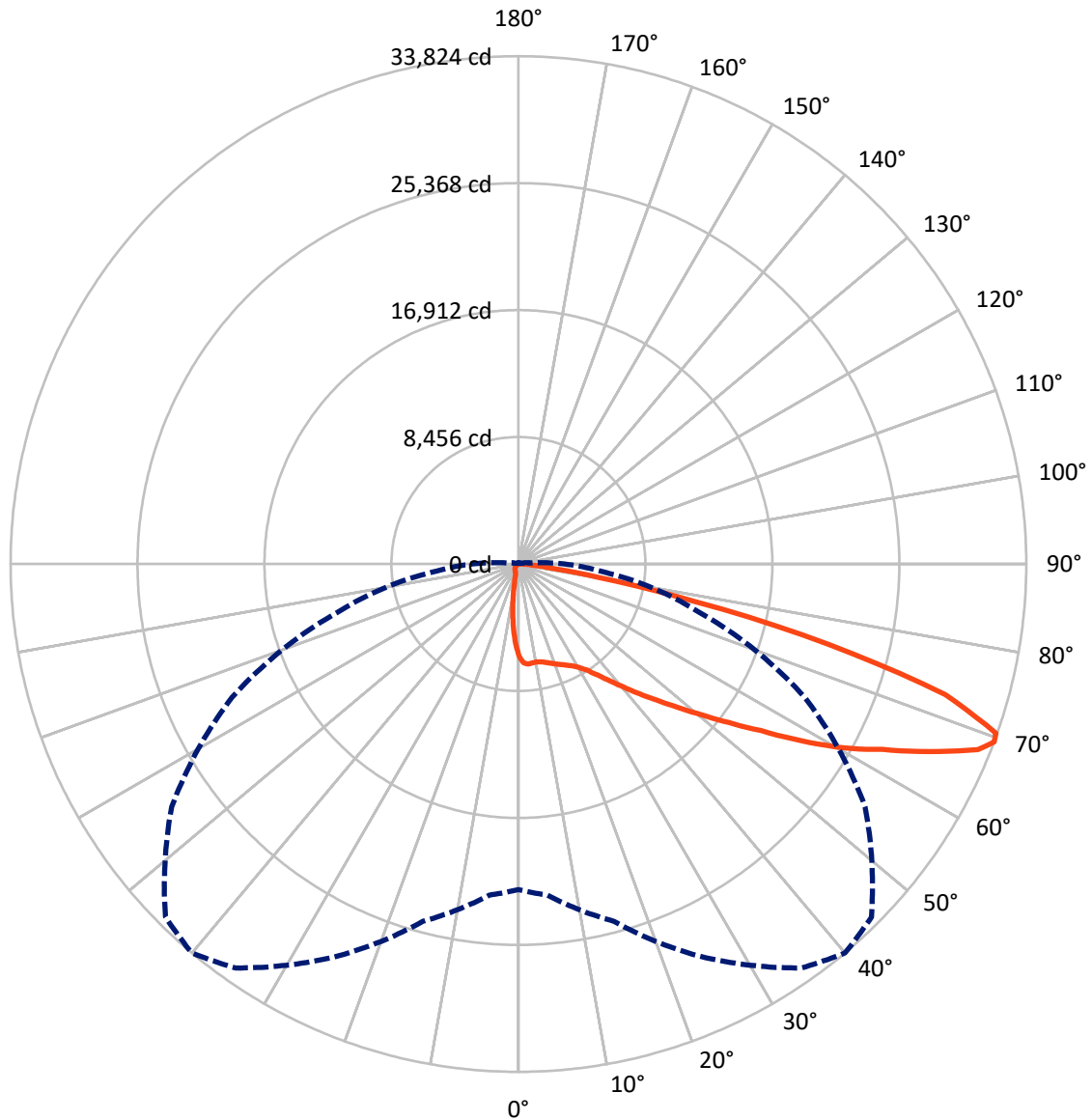


Based on 30 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2408.2	0.0	2408.2
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	38754.1	0.0	38754.1
	% Fixture	94.1	0.0	94.1
Total	Lumens	41162.3	0.0	41162.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.6	1.2
10°-20°	1226.2	3.0
20°-30°	2065.4	5.0
30°-40°	3381.1	8.2
40°-50°	5854.3	14.2
50°-60°	9221.1	22.4
60°-70°	12042.4	29.3
70°-80°	6202.3	15.1
80°-90°	670.9	1.6
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°	41162.3	100.0
0°-180°	41162.3	100.0



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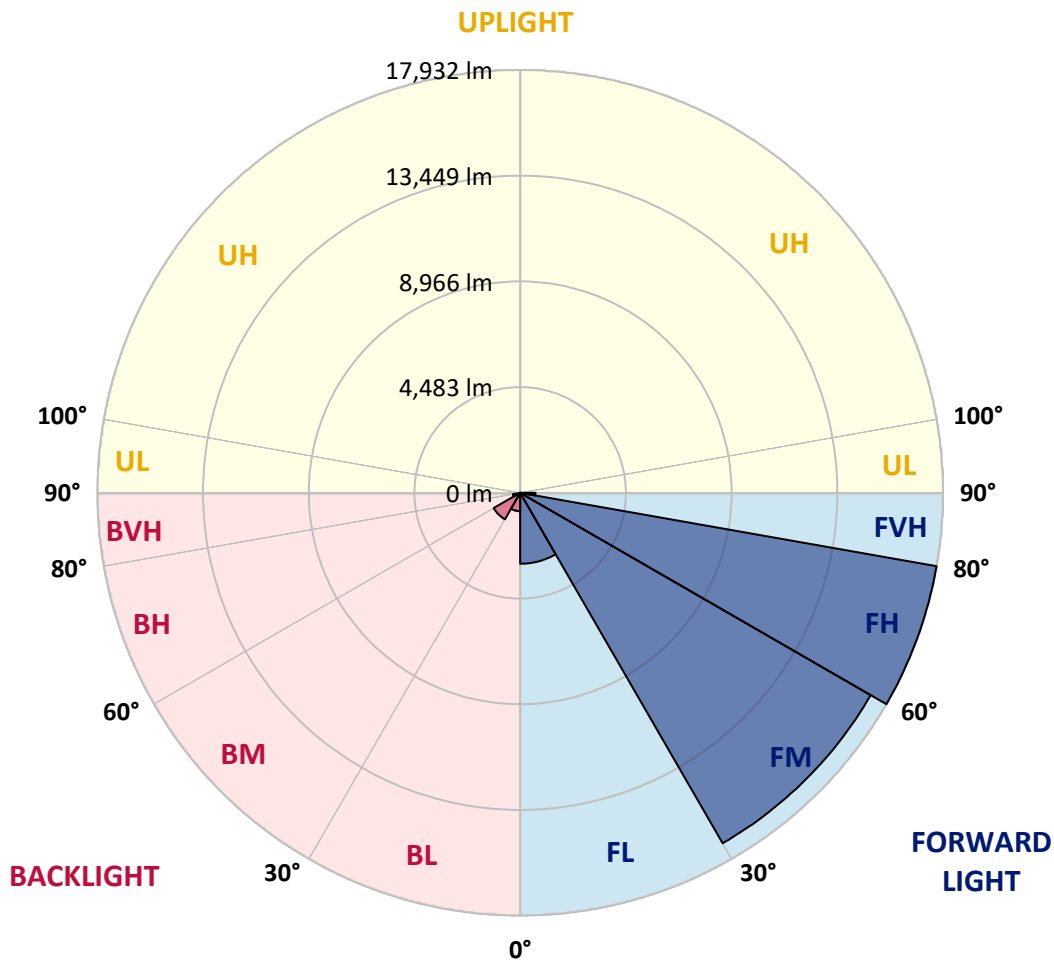
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3010.1	7.3			
FM	(30°-60°)	17162.1	41.7			
FH	(60°-80°)	17932.0	43.6			G5
FVH	(80°-90°)	649.8	1.6			G4/750
BL	(0°-30°)	780.1	1.9	B2/1000		
BM	(30°-60°)	1294.4	3.1	B2/2500		
BH	(60°-80°)	312.7	0.8	B1/500		G1/500
BVH	(80°-90°)	21.1	0.1			G1/100
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°	40°	45°	55°	65°	75°	85°
0°	6149.8	6149.8	6149.8	6149.8	6149.8	6149.8	6149.8	6149.8	6149.8	6149.8	6149.8
2.5°	6752.6	6715.9	6693.8	6664.3	6627.6	6595.7	6583.6	6492.9	6407.2	6289.6	6154.7
5°	6877.6	6865.2	6826.1	6787.0	6742.8	6693.8	6666.9	6559.1	6436.5	6265.0	6029.9
7.5°	6889.8	6875.1	6826.1	6772.2	6711.0	6652.2	6605.5	6497.8	6385.2	6211.2	5924.4
10°	6870.1	6853.1	6816.2	6757.5	6681.6	6625.2	6578.6	6475.7	6380.2	6223.4	5904.9
12.5°	6848.1	6831.0	6813.9	6784.4	6718.3	6679.1	6639.9	6541.8	6456.1	6323.8	5976.0
15°	6870.1	6860.4	6879.9	6867.7	6831.0	6796.7	6757.5	6669.2	6590.9	6480.6	6105.8
17.5°	6963.3	6963.3	7024.6	7031.9	6997.5	6948.6	6892.2	6804.0	6737.8	6644.9	6260.1
20°	7181.4	7174.0	7252.5	7267.1	7183.8	7107.8	7024.6	6916.8	6865.2	6806.5	6412.0
22.5°	7556.3	7522.0	7568.5	7553.8	7389.6	7272.0	7169.2	7036.9	7009.8	6983.0	6581.2
25°	8043.9	8024.2	8056.1	7911.6	7622.4	7463.2	7340.6	7191.2	7191.2	7218.2	6772.2
27.5°	8751.9	8678.4	8570.5	8315.8	7882.1	7678.7	7546.4	7387.2	7428.9	7529.4	7024.6
30°	9477.2	9396.4	9148.9	8756.8	8198.2	7985.0	7830.6	7664.1	7762.1	7945.8	7362.7
32.5°	10192.6	10102.0	9751.6	9256.7	8651.4	8438.3	8288.8	8105.0	8269.3	8577.9	7857.7
35°	10886.0	10805.2	10400.8	9817.8	9254.2	9077.8	8940.7	8781.3	8992.0	9423.3	8555.8
37.5°	11665.1	11576.9	11084.5	10452.3	9986.7	9859.3	9758.9	9599.6	9967.2	10599.3	9528.6
40°	12623.2	12473.7	11809.7	11180.0	10834.5	10773.4	10704.7	10682.6	11253.5	12128.2	10824.8
42.5°	13720.8	13475.8	12569.3	11946.9	11765.6	11809.7	11792.6	11890.5	12863.3	14029.5	12402.7
45°	14818.5	14502.3	13414.6	12765.3	12789.8	12944.1	13039.6	13431.6	14879.7	16210.2	14100.5
47.5°	15749.5	15438.5	14225.6	13649.7	13943.9	14247.6	14507.3	15249.6	16952.5	18356.4	15421.3
50°	16545.8	16251.9	15085.5	14622.5	15284.0	15774.1	16195.5	17295.5	19182.1	19990.7	16347.4
52.5°	17197.6	17001.5	15977.4	15737.2	16815.4	17533.3	18150.7	19468.8	21157.1	21318.8	17067.7
55°	17832.2	17692.5	16935.3	17062.9	18613.8	19591.3	20373.0	21774.5	22857.5	22426.1	17758.7
57.5°	18562.2	18434.8	18028.2	18743.7	20978.2	22208.1	23060.7	23817.9	24354.5	23558.1	18410.5
60°	19307.1	19233.6	19243.4	20610.6	23692.9	24873.9	25344.3	25540.3	25824.6	24624.0	18447.1
62.5°	20017.7	20157.3	20632.7	22688.3	26292.5	27199.2	27436.8	27630.2	27297.1	24793.0	17043.3
65°	21220.8	21448.7	22583.0	25469.3	29151.8	30122.1	30367.2	29703.1	27529.8	22607.6	13863.0
67.5°	21808.7	22225.2	24249.0	28061.6	31925.5	33003.5	32912.8	29837.9	24704.8	17239.3	8896.5
69°	21686.3	22129.7	24633.9	28855.4	32846.6	33824.3	33248.4	28189.0	21046.7	12488.3	5461.3
70°	21201.1	21649.5	24435.3	28826.0	32964.3	33738.5	32626.1	26152.8	17795.5	9131.7	3415.4
72.5°	17704.8	18091.9	21693.6	26054.9	30367.2	29737.4	27294.6	18118.9	8671.1	2486.9	769.4
75°	10898.2	11113.9	15565.8	19628.1	22935.9	21318.8	18185.0	9014.1	2585.0	703.3	426.3
77.5°	5757.9	5855.8	8521.6	11569.6	14539.2	12030.2	9320.4	3516.0	1190.8	441.0	308.7
80°	3403.3	3476.8	4589.1	5289.8	6292.0	5255.5	3726.7	2158.5	852.6	276.9	274.4
82.5°	1947.9	1994.3	3327.3	2940.2	2479.5	2116.9	1854.8	2045.9	512.0	186.2	284.3
85°	715.4	725.2	1871.9	2237.0	1474.9	877.1	921.2	1695.6	137.3	117.6	223.0
87.5°	333.2	325.8	963.0	1369.6	862.5	556.2	717.8	372.3	53.9	75.9	61.3
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°	6149.8	6149.8	6149.8	6149.8	6149.8	6149.8	6149.8	6149.8	6149.8	6149.8	6149.8
2.5°	6076.3	5985.6	5821.6	5652.4	5481.0	5348.7	5218.9	5115.8	5081.6	5017.9	5022.9
5°	5890.1	5723.6	5380.5	5032.7	4670.0	4371.1	4089.4	3861.5	3751.2	3638.4	3638.4
7.5°	5728.4	5485.9	4949.3	4383.3	3797.8	3305.3	2861.8	2528.5	2344.8	2197.8	2195.4
10°	5667.1	5338.8	4589.1	3778.1	2962.3	2290.9	1764.1	1426.0	1252.0	1139.3	1134.4
12.5°	5694.1	5287.5	4312.3	3219.4	2195.4	1472.5	1021.7	803.7	730.1	695.8	695.8
15°	5772.6	5272.7	4035.4	2673.0	1551.0	921.2	678.7	619.9	615.0	615.0	615.0
17.5°	5868.1	5277.6	3751.2	2141.4	1056.0	659.0	585.5	578.1	583.1	583.1	583.1
20°	5966.2	5280.1	3444.9	1649.0	744.9	573.4	551.3	548.9	553.7	553.7	556.2
22.5°	6086.1	5292.4	3138.7	1232.5	615.0	541.5	524.3	524.3	526.8	526.8	524.3
25°	6223.4	5316.8	2820.0	913.8	561.1	519.4	504.8	502.3	504.8	502.3	499.8
27.5°	6394.9	5351.2	2464.9	715.4	536.6	497.4	485.2	485.2	482.7	480.2	477.8
30°	6610.4	5390.3	2065.5	607.7	512.0	477.8	465.5	463.0	460.7	455.7	455.7
32.5°	6938.8	5476.1	1670.9	551.3	485.2	450.8	441.0	441.0	436.1	431.2	428.9
35°	7443.5	5645.0	1318.2	517.0	455.7	421.5	409.2	409.2	404.2	401.8	399.3
37.5°	8141.9	5902.5	1024.2	485.2	426.3	389.5	377.3	374.9	370.0	365.2	362.6
40°	9070.5	6220.9	806.0	455.7	397.0	357.7	348.0	343.1	333.2	325.8	325.8
42.5°	10236.7	6583.6	654.1	423.9	362.6	328.3	321.0	313.6	296.5	289.2	286.6
45°	11457.0	6909.5	553.7	387.1	328.3	299.0	294.0	281.8	259.7	252.3	252.3
47.5°	12336.6	6985.4	487.6	352.9	296.5	267.1	264.6	242.5	223.0	218.1	215.7
50°	12885.3	6835.9	433.7	318.4	267.1	237.6	230.3	203.3	191.1	186.2	183.8
52.5°	13255.3	6568.9	389.5	289.2	240.0	210.7	193.6	173.9	164.2	159.3	159.3
55°	13551.8	6191.5	345.5	262.1	218.1	188.6	164.2	149.5	139.6	134.7	134.7
57.5°	13635.1	5679.4	301.4	240.0	196.0	166.6	139.6	129.8	117.6	115.2	115.2
60°	13029.8	4755.7	267.1	213.2	176.3	144.5	122.4	110.2	98.1	95.6	93.2
62.5°	11434.9	3680.1	235.3	188.6	154.4	125.0	105.3	90.6	80.8	80.8	80.8
65°	8722.5	2467.4	205.8	164.2	134.7	105.3	90.6	73.5	68.6	68.6	71.1
67.5°	5221.3	1342.6	176.3	139.6	115.2	88.3	75.9	63.7	61.3	63.7	63.7
69°	3060.3	788.9	159.3	125.0	100.5	78.4	66.1	56.4	61.3	63.7	63.7
70°	1889.0	531.6	147.1	112.6	90.6	71.1	61.3	53.9	58.7	61.3	61.3
72.5°	526.8	274.4	117.6	88.3	73.5	58.7	49.0	49.0	56.4	58.7	58.7
75°	343.1	203.3	90.6	66.1	56.4	46.5	41.6	46.5	53.9	56.4	56.4
77.5°	284.3	166.6	73.5	53.9	46.5	44.0	39.2	41.6	49.0	51.5	51.5
80°	259.7	117.6	58.7	49.0	41.6	39.2	36.7	34.2	44.0	46.5	46.5
82.5°	247.5	93.2	51.5	44.0	39.2	34.2	31.9	34.2	39.2	41.6	44.0
85°	154.4	61.3	46.5	41.6	34.2	31.9	31.9	31.9	36.7	39.2	39.2
87.5°	56.4	49.0	41.6	34.2	29.5	29.5	29.5	29.5	31.9	36.7	36.7
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)