

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: P322572

Luminaire Tested: **GAN-SA8C-740-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40257 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

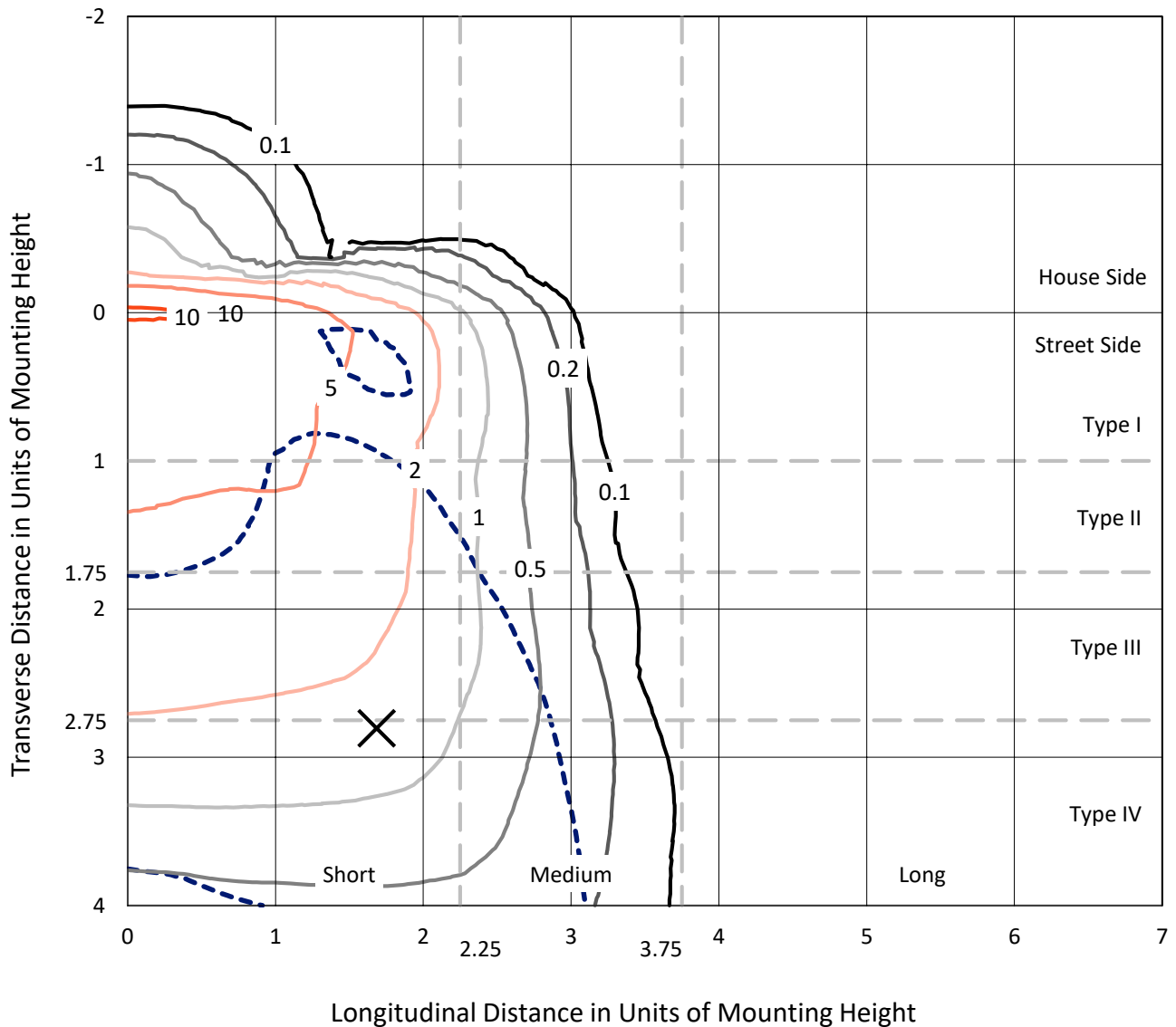
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

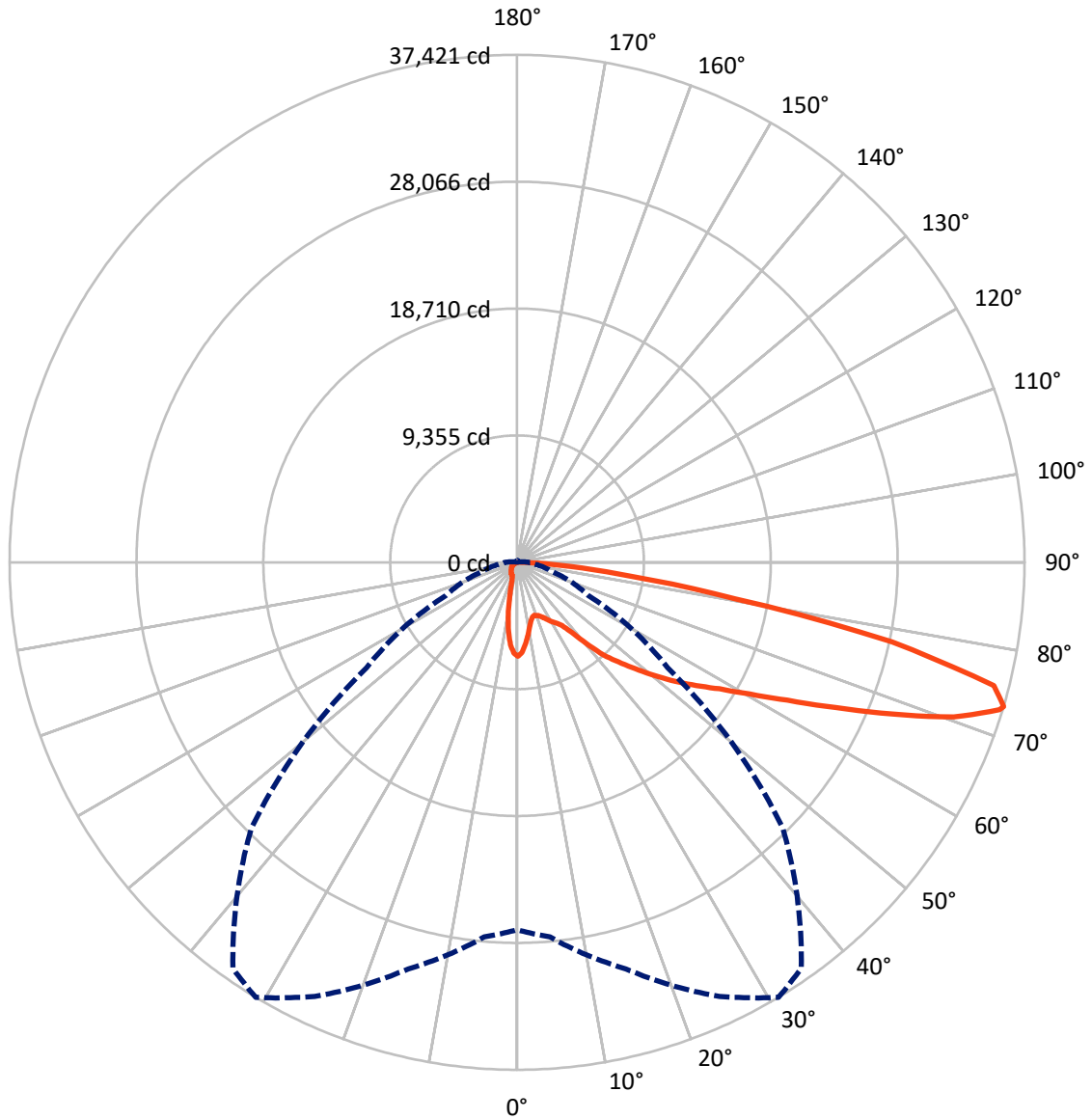
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3669.6	0.0	3669.6
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	36587.4	0.0	36587.4
	% Fixture	90.9	0.0	90.9
Total	Lumens	40257.0	0.0	40257.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.3	1.4
10°-20°	1246.9	3.1
20°-30°	1868.3	4.6
30°-40°	2972.4	7.4
40°-50°	5308.0	13.2
50°-60°	8236.4	20.5
60°-70°	10949.2	27.2
70°-80°	8236.0	20.5
80°-90°	865.4	2.1
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°	40257.0	100.0
0°-180°	40257.0	100.0

Coefficient of Utilization

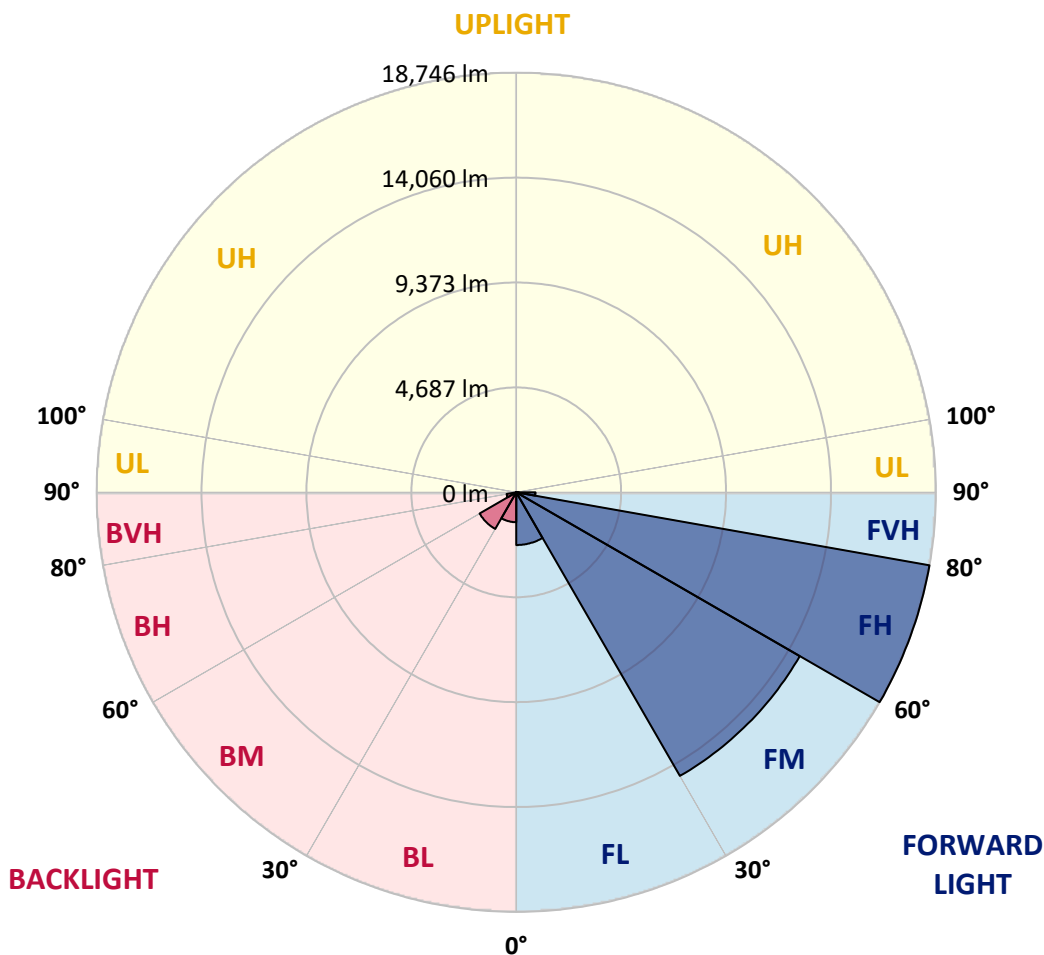


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2355.1	5.9			
FM (30°-60°)	14628.0	36.3			
FH (60°-80°)	18746.2	46.6			G5
FVH (80°-90°)	858.2	2.1			G5
BL (0°-30°)	1334.4	3.3	B3/2500		
BM (30°-60°)	1888.8	4.7	B2/2500		
BH (60°-80°)	439.0	1.1	B1/500		G1/500
BVH (80°-90°)	7.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	6926.3	6926.3	6926.3	6926.3	6926.3	6926.3	6926.3	6926.3	6926.3	6926.3	6926.3
2.5°	6563.8	6591.4	6621.0	6626.9	6676.1	6678.1	6749.0	6802.2	6855.4	6906.6	6924.3
5°	5890.1	5935.4	5988.6	6041.8	6146.2	6187.6	6360.9	6538.2	6707.6	6869.2	6948.0
7.5°	5171.1	5222.3	5297.2	5429.1	5545.4	5626.1	5900.0	6215.2	6530.3	6827.8	6999.2
10°	4515.1	4562.4	4641.2	4781.0	4960.3	5070.6	5439.0	5876.3	6339.3	6790.4	7076.0
12.5°	4097.5	4123.1	4166.4	4316.1	4477.7	4601.8	5035.2	5576.9	6181.7	6788.4	7200.1
15°	4020.6	4028.5	3993.1	4060.0	4186.1	4306.3	4745.6	5334.6	6061.5	6819.9	7361.7
17.5°	4142.8	4138.8	4020.6	4012.8	4113.2	4211.7	4603.7	5167.1	5976.8	6892.8	7570.5
20°	4328.0	4314.2	4109.3	4071.9	4178.2	4270.8	4593.9	5104.1	5945.3	7014.9	7824.6
22.5°	4574.2	4550.6	4229.5	4190.1	4304.3	4400.8	4716.0	5165.2	5972.8	7178.5	8120.1
25°	4879.5	4844.1	4436.3	4393.0	4509.2	4605.7	4934.7	5340.5	6055.6	7377.4	8494.4
27.5°	5224.3	5173.1	4767.2	4655.0	4786.9	4887.4	5226.2	5608.4	6185.6	7588.2	8953.4
30°	5549.3	5482.3	5115.9	4930.8	5092.3	5204.6	5541.4	5927.5	6394.4	7913.2	9581.8
32.5°	5876.3	5801.5	5427.2	5206.5	5352.3	5474.5	5866.5	6366.8	6786.4	8409.7	10417.0
35°	6628.8	6550.0	6091.0	5726.6	5724.6	5793.6	6321.5	6967.7	7304.5	9101.1	11413.8
37.5°	7895.5	7850.2	7412.9	6721.4	6536.3	6459.4	6942.1	7684.7	8049.2	10052.6	12538.7
40°	9282.3	9242.9	8752.4	8126.0	7844.3	7655.2	7832.5	8683.5	9101.1	11214.9	13687.1
42.5°	10848.4	10661.3	9786.6	9599.5	9347.4	9203.5	9044.0	9914.7	10393.4	12479.6	14825.7
45°	12270.7	11955.5	10820.9	10537.2	10480.1	10515.5	10604.2	11569.4	11847.2	13982.6	15960.4
47.5°	13117.8	12869.6	11998.9	11727.0	11711.3	11945.7	12615.5	13438.9	13295.1	15292.6	16959.2
50°	13923.5	13698.9	12976.0	13043.0	13115.8	13435.0	14898.6	15361.6	14616.9	16480.5	17875.2
52.5°	14575.6	14232.8	13854.6	14230.8	14589.4	15103.5	17254.7	17087.2	15554.6	17426.1	18659.2
55°	14951.8	14796.2	14979.4	15357.6	16031.3	16866.6	19478.7	18523.3	16240.2	18288.9	19181.3
57.5°	16330.8	16025.4	16389.9	16716.9	17595.5	18763.7	21383.7	19593.0	16734.6	18822.8	19301.4
60°	17999.3	17753.1	17967.8	18511.5	19697.4	21070.4	23164.5	20465.7	16992.7	19165.5	18990.2
62.5°	20654.8	20329.8	20195.8	20804.5	22376.5	23875.6	24515.9	21070.4	16935.6	19013.8	17922.5
65°	24212.5	23875.6	23276.8	23828.4	25827.8	26885.7	26026.8	21198.5	16541.6	17786.6	15223.7
67.5°	27856.9	27612.6	27100.4	28030.2	29834.7	30175.5	27624.4	20887.2	15272.9	14421.9	10755.9
70°	30264.1	30159.7	30492.7	32549.3	34158.7	34060.2	29090.1	19214.8	11904.3	8868.7	5320.8
72.5°	28528.6	29029.0	31487.5	35216.6	37182.6	36378.8	28337.5	14754.8	6804.2	3411.9	1538.5
73°	27090.6	27730.8	31040.3	35317.0	37420.9	36540.4	27705.2	13543.3	5799.5	2692.9	1166.2
75°	18846.4	19632.4	25697.8	32892.0	36305.9	34814.7	23093.6	8289.5	2687.0	1193.8	470.8
77.5°	9150.4	9731.5	14150.1	23765.3	28235.1	27200.9	14376.6	3088.9	1213.5	746.6	216.7
80°	3415.9	3798.0	6142.3	12095.4	16317.0	16744.5	6323.5	1168.2	807.7	600.8	110.3
82.5°	894.4	996.8	2265.4	5393.7	8362.4	8752.4	1993.6	589.0	591.0	494.5	67.0
85°	285.6	327.0	707.2	2421.1	3939.9	3459.2	520.1	285.6	429.4	368.4	37.4
87.5°	35.5	45.3	224.6	569.3	868.7	482.6	80.8	84.7	183.2	204.9	21.7
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°	6926.3	6926.3	6926.3	6926.3	6926.3	6926.3	6926.3	6926.3	6926.3	6926.3	6926.3
2.5°	6942.1	6932.2	6934.2	6883.0	6849.5	6782.5	6713.5	6682.0	6648.5	6634.7	6648.5
5°	6977.5	6959.8	6908.6	6751.0	6583.5	6366.8	6163.9	6010.3	5817.2	5764.0	5819.2
7.5°	7032.7	6997.2	6847.5	6526.4	6154.1	5740.4	5275.5	4936.7	4658.9	4479.6	4544.6
10°	7113.4	7046.5	6745.1	6199.4	5533.6	4800.7	4140.8	3626.7	3262.2	3112.5	3106.6
12.5°	7249.4	7123.3	6619.0	5773.9	4775.1	3798.0	2933.2	2375.7	2080.3	1889.2	1885.2
15°	7399.1	7213.9	6459.4	5263.7	3892.6	2720.5	1889.2	1465.6	1274.5	1213.5	1205.6
17.5°	7582.3	7318.3	6252.6	4635.3	2968.7	1802.5	1233.2	1111.0	1103.2	1097.3	1097.3
20°	7812.8	7442.4	5986.6	3916.2	2105.9	1203.6	1048.0	1055.9	1059.8	1051.9	1053.9
22.5°	8080.7	7568.5	5669.5	3144.0	1424.3	1006.6	1002.7	1012.5	1016.5	1012.5	1014.5
25°	8391.9	7714.3	5283.4	2334.4	1028.3	955.4	965.3	979.1	988.9	988.9	988.9
27.5°	8778.0	7891.6	4818.5	1629.1	888.4	902.2	929.8	955.4	969.2	973.1	973.1
30°	9280.4	8112.2	4261.0	1117.0	807.7	831.3	882.5	931.8	957.4	961.3	963.3
32.5°	9914.7	8360.4	3614.8	825.4	738.7	756.5	811.6	894.4	943.6	951.5	951.5
35°	10641.6	8648.0	2919.4	719.0	689.5	695.4	738.7	833.3	920.0	941.6	943.6
37.5°	11437.5	8931.7	2220.1	671.7	648.1	648.1	679.6	760.4	862.8	929.8	937.7
40°	12180.1	9103.1	1556.3	634.3	610.7	610.7	638.3	697.4	793.9	894.4	916.0
42.5°	12865.7	9162.2	1083.5	598.9	575.2	581.1	604.8	652.0	724.9	825.4	845.1
45°	13570.9	9152.3	789.9	557.5	539.8	557.5	575.2	610.7	663.9	721.0	724.9
47.5°	14102.8	9069.6	626.4	518.1	506.3	529.9	545.7	569.3	598.9	594.9	594.9
50°	14601.2	8868.7	504.3	464.9	472.8	500.4	508.2	516.1	518.1	480.7	476.7
52.5°	14979.4	8555.4	403.8	407.8	439.3	466.9	459.0	447.2	427.5	382.2	374.3
55°	15105.5	7952.6	317.2	336.9	390.0	425.5	396.0	370.3	332.9	295.5	287.6
57.5°	14877.0	7174.5	258.1	262.0	329.0	358.5	325.0	295.5	254.1	222.6	216.7
60°	14392.4	6309.7	212.8	197.0	254.1	279.7	258.1	228.5	191.1	167.4	165.5
62.5°	13431.0	5387.8	175.3	153.7	193.1	214.7	200.9	179.3	147.7	132.0	130.0
65°	11409.9	4310.2	141.8	124.1	149.7	167.4	155.6	139.9	116.2	104.4	102.4
67.5°	7964.5	2913.5	116.2	102.4	118.2	132.0	122.1	114.3	92.6	90.6	92.6
70°	3841.4	1404.6	96.5	82.7	92.6	102.4	98.5	92.6	88.6	102.4	118.2
72.5°	1101.2	470.8	76.8	68.9	74.9	80.8	84.7	82.7	96.5	124.1	143.8
73°	847.1	380.2	72.9	65.0	70.9	78.8	82.7	80.8	98.5	126.1	143.8
75°	362.5	183.2	55.2	53.2	59.1	68.9	72.9	72.9	98.5	128.0	137.9
77.5°	163.5	98.5	35.5	41.4	51.2	55.2	61.1	61.1	78.8	98.5	98.5
80°	92.6	53.2	27.6	31.5	37.4	37.4	37.4	33.5	35.5	39.4	43.3
82.5°	59.1	35.5	21.7	25.6	23.6	19.7	15.8	15.8	13.8	15.8	19.7
85°	33.5	19.7	19.7	15.8	9.8	7.9	9.8	7.9	2.0	0.0	2.0
87.5°	19.7	11.8	5.9	0.0	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)