

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: P268888

Luminaire Tested: **GAN-AF-10-LED-U-5NQ-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268888
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-5NQ-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57922.1 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 640
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

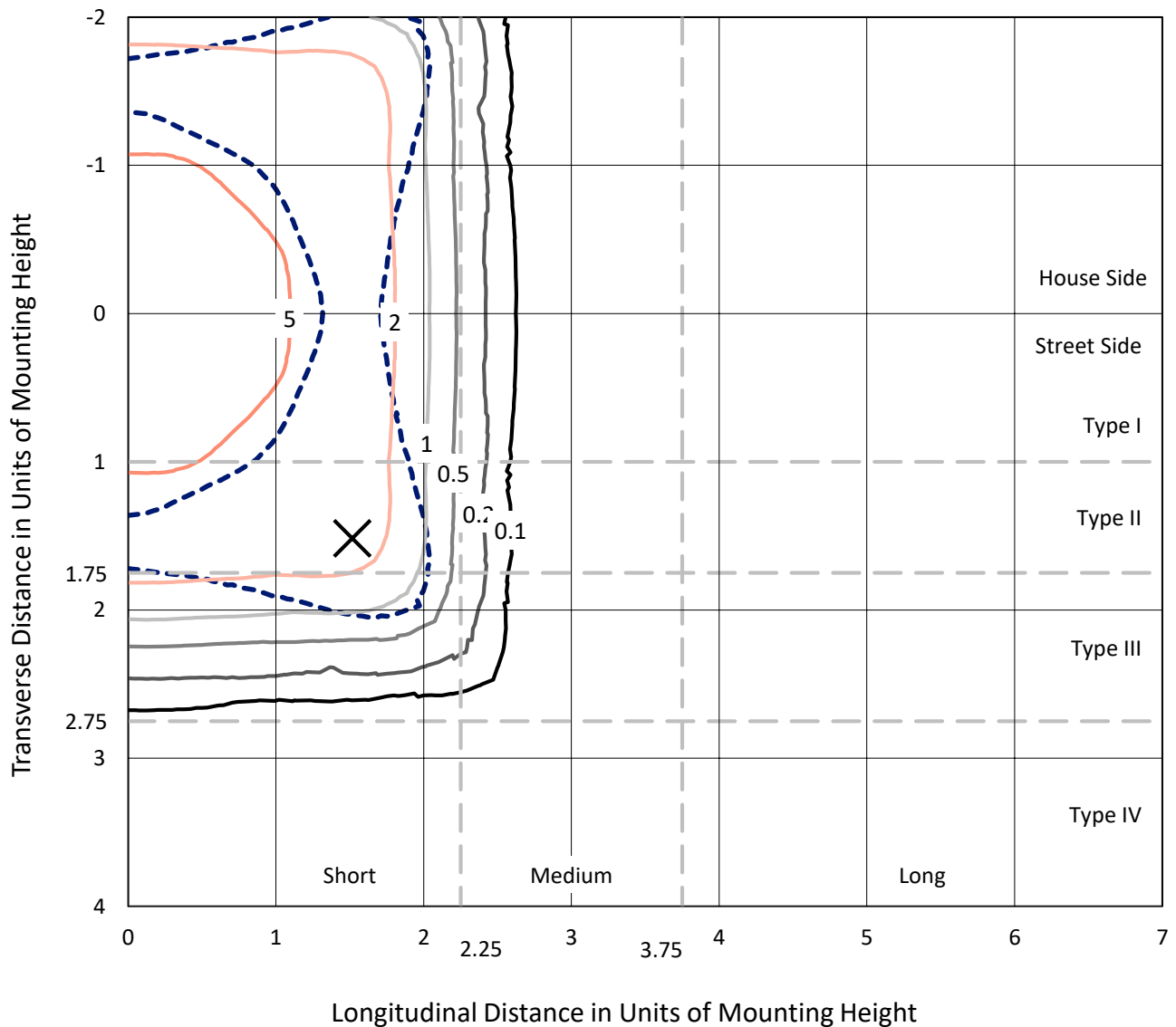


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

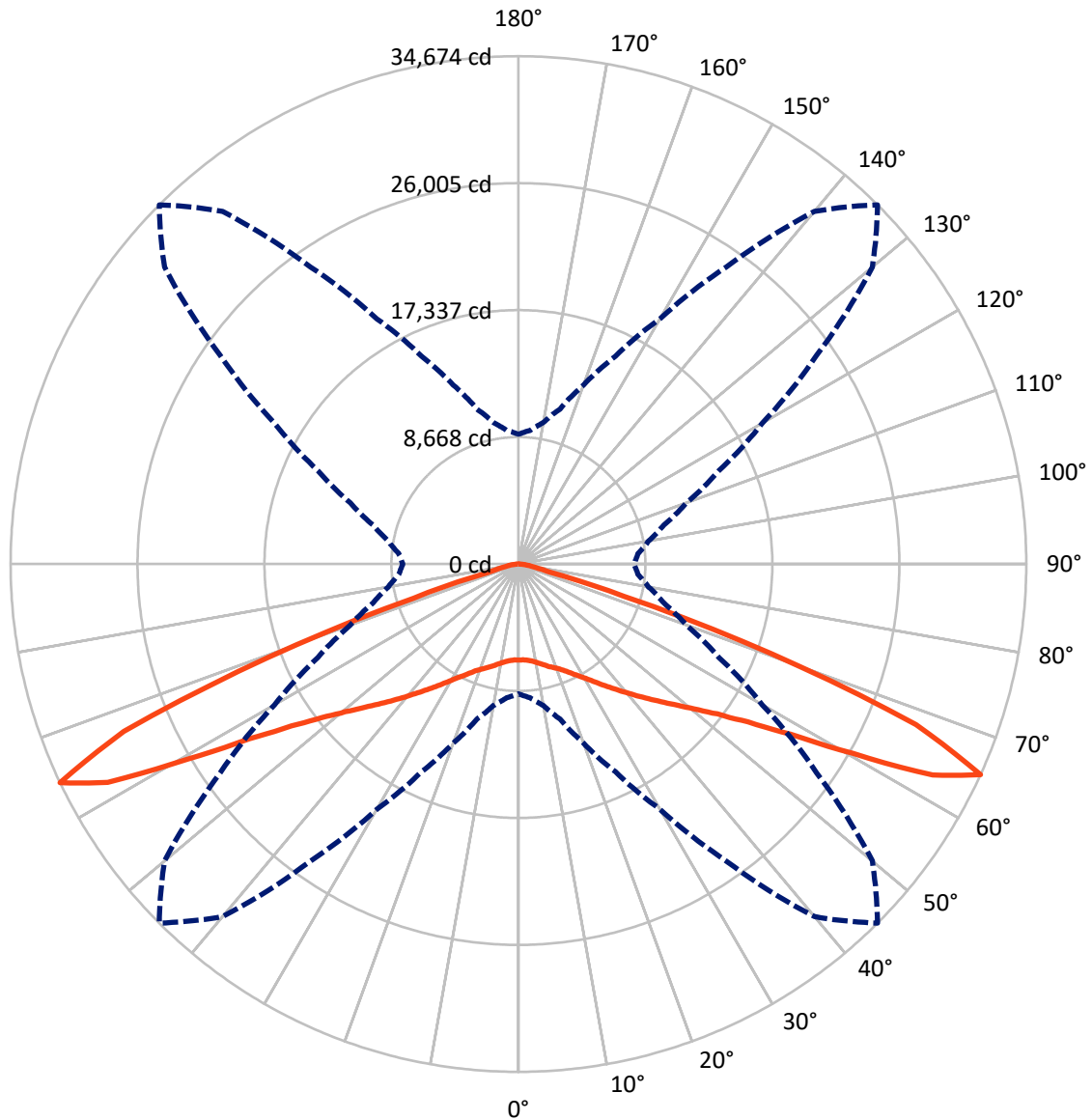


Based on 30 foot mounting height. Maximum calculated value = 7.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28961.1	0.0	28961.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28961.1	0.0	28961.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	57922.1	0.0	57922.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.8	1.1
10°-20°	2048.7	3.5
20°-30°	3830.7	6.6
30°-40°	6478.9	11.2
40°-50°	10593.6	18.3
50°-60°	16845.5	29.1
60°-70°	15227.3	26.3
70°-80°	1927.1	3.3
80°-90°	331.5	0.6
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°	57922.1	100.0
0°-180°	57922.1	100.0

Coefficient of Utilization



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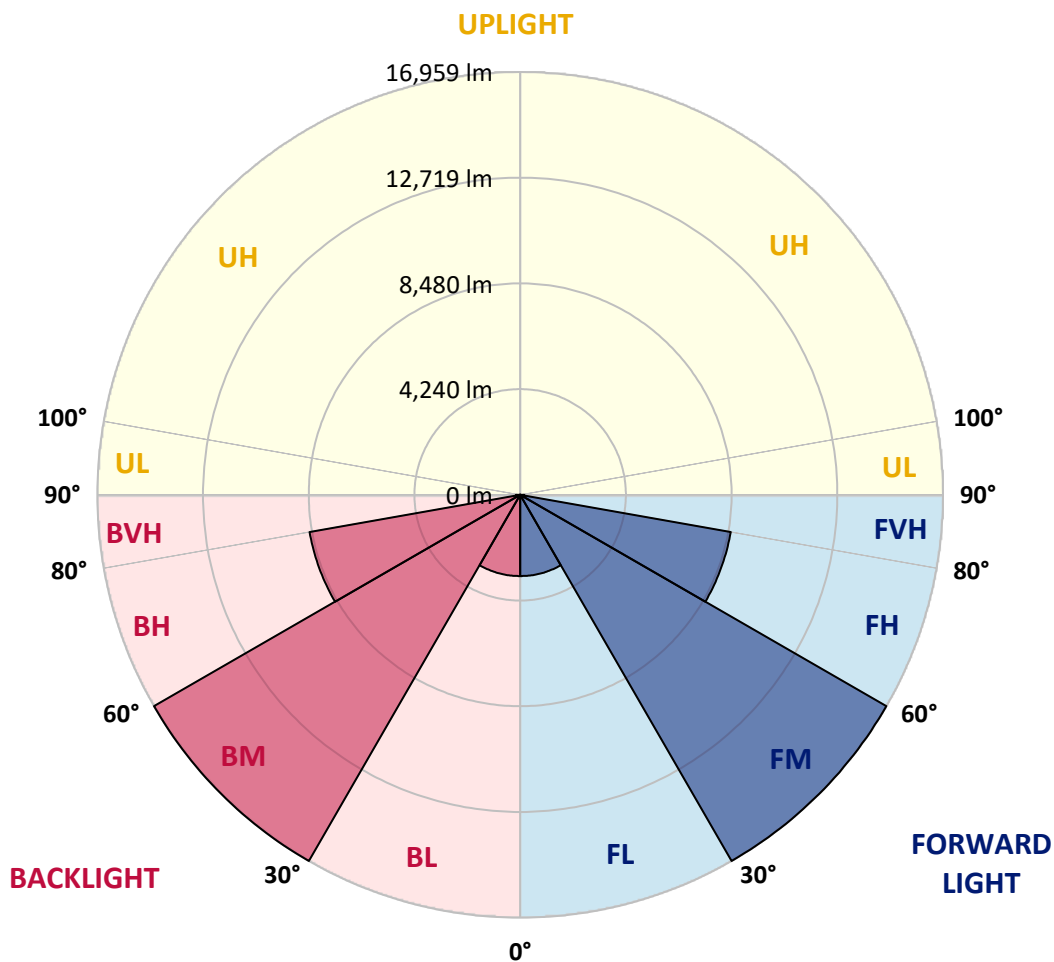
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3259.1	5.6			
FM	(30°-60°)	16959.0	29.3			
FH	(60°-80°)	8577.2	14.8			G4/12000
FVH	(80°-90°)	165.8	0.3			G2/225
BL	(0°-30°)	3259.1	5.6	B4/5000		
BM	(30°-60°)	16959.0	29.3	B5		
BH	(60°-80°)	8577.2	14.8	B5		G4/12000
BVH	(80°-90°)	165.8	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6553.9	6553.9	6553.9	6553.9	6553.9	6553.9	6553.9	6553.9	6553.9	6553.9	6553.9
2.5°	6559.3	6564.8	6570.3	6564.8	6570.3	6562.1	6556.5	6564.8	6556.5	6548.6	6553.9
5°	6616.2	6619.0	6619.0	6610.8	6619.0	6613.6	6605.4	6616.2	6608.2	6600.0	6605.4
7.5°	6711.2	6722.0	6713.9	6705.8	6711.2	6705.8	6700.4	6703.2	6700.4	6692.3	6695.0
10°	6838.7	6846.9	6841.5	6838.7	6844.1	6841.5	6836.0	6833.3	6836.0	6827.8	6827.8
12.5°	6993.3	6990.7	6987.9	6990.7	6998.9	6998.9	6996.1	6998.9	7004.3	7006.9	7001.5
15°	7145.3	7150.7	7150.7	7150.7	7166.9	7180.5	7188.6	7194.2	7204.9	7207.7	7196.9
17.5°	7335.2	7335.2	7332.4	7335.2	7351.5	7373.2	7381.4	7392.2	7403.0	7411.1	7397.6
20°	7546.8	7552.2	7552.2	7557.6	7579.3	7603.8	7603.8	7609.2	7603.8	7609.2	7601.0
22.5°	7804.5	7820.7	7820.7	7823.5	7845.2	7875.0	7866.8	7875.0	7861.4	7872.2	7861.4
25°	8140.9	8165.2	8159.8	8159.8	8176.2	8195.1	8197.8	8214.1	8211.3	8224.9	8216.7
27.5°	8520.7	8558.6	8569.6	8566.7	8577.6	8596.6	8602.0	8621.0	8610.2	8621.0	8615.6
30°	8976.4	8992.7	9014.3	9022.4	9036.1	9055.0	9055.0	9057.8	9044.1	9060.5	9068.6
32.5°	9448.5	9478.2	9499.9	9548.8	9573.1	9586.7	9584.0	9589.4	9575.9	9597.6	9613.9
35°	10072.3	10094.1	10129.3	10167.2	10199.9	10197.1	10188.9	10191.7	10191.7	10210.7	10226.9
37.5°	10823.8	10829.2	10875.3	10929.5	10945.8	10929.5	10880.7	10869.9	10845.4	10869.9	10897.0
40°	11618.6	11637.5	11729.8	11765.0	11773.1	11743.4	11672.8	11632.2	11577.9	11607.7	11645.6
42.5°	12451.3	12489.3	12573.4	12635.7	12663.0	12644.0	12546.3	12483.9	12413.4	12429.7	12467.7
45°	13373.6	13419.8	13539.2	13598.8	13650.4	13620.6	13525.6	13430.6	13319.3	13327.6	13387.3
47.5°	14404.5	14450.7	14605.3	14705.7	14732.7	14727.4	14621.5	14491.3	14339.5	14334.0	14385.5
50°	15560.1	15606.3	15798.9	15953.4	16032.1	16024.0	15899.2	15714.8	15530.3	15533.0	15598.1
52.5°	16688.6	16745.6	16946.3	17212.2	17366.8	17478.1	17402.1	17228.5	17003.3	17008.7	17068.3
55°	17746.6	17841.5	18072.1	18433.0	18720.5	19032.4	19122.0	19116.6	18980.8	19018.8	19078.6
57.5°	18259.3	18400.3	18755.7	19325.3	19911.3	20546.2	21083.2	21484.8	21655.6	21913.3	21853.6
60°	17288.2	17513.3	18036.9	18875.0	20033.5	21357.3	22775.9	24162.2	25344.9	26237.3	25724.7
62.5°	14155.0	14447.9	15082.7	16156.9	17909.4	20028.0	22743.4	26020.3	29590.3	31744.1	30206.0
65°	8857.0	9160.8	9806.4	10956.6	13007.5	15641.5	19325.3	24756.2	31426.8	34673.9	31543.4
67.5°	3453.3	3618.7	3968.7	4703.9	6244.7	8588.4	12285.8	18449.2	26427.2	29272.9	25936.3
70°	1730.8	1747.1	1812.2	1947.7	2278.7	2959.6	4503.2	8553.2	15155.9	18305.4	14610.8
72.5°	1250.6	1253.2	1285.8	1345.5	1451.3	1603.2	1896.2	2617.8	4929.0	7533.1	4619.8
75°	957.7	968.5	987.4	1019.9	1077.0	1153.0	1258.6	1508.3	1869.1	2167.5	1822.9
77.5°	737.9	759.5	773.1	802.9	838.2	889.9	919.7	1014.5	1180.1	1242.4	1223.4
80°	561.5	580.6	610.4	634.8	659.1	683.6	672.7	716.2	802.9	854.5	827.3
82.5°	358.1	379.8	466.6	488.3	499.2	515.4	496.5	499.2	537.1	569.6	537.1
85°	230.5	244.2	295.7	322.9	325.5	336.3	328.2	309.2	309.2	282.1	317.5
87.5°	105.8	108.5	132.9	157.4	162.8	146.6	143.8	138.3	111.2	105.8	113.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	6553.9	6553.9	6553.9	6553.9	6553.9	6553.9	6553.9	6553.9
2.5°	6551.2	6556.5	6559.3	6567.5	6570.3	6570.3	6572.9	6578.4
5°	6602.7	6610.8	6613.6	6624.5	6627.2	6624.5	6629.9	6632.5
7.5°	6695.0	6708.5	6713.9	6724.8	6716.6	6727.5	6730.2	6730.2
10°	6830.6	6844.1	6846.9	6857.8	6852.4	6857.8	6857.8	6852.4
12.5°	7009.7	7012.3	7004.3	7012.3	7001.5	7006.9	6998.9	6993.3
15°	7207.7	7199.6	7180.5	7180.5	7164.3	7166.9	7164.3	7161.6
17.5°	7400.2	7384.0	7370.5	7365.1	7351.5	7348.8	7340.6	7340.6
20°	7611.9	7603.8	7595.6	7584.7	7571.2	7557.6	7554.9	7560.3
22.5°	7866.8	7864.1	7864.1	7858.7	7839.8	7826.2	7818.0	7818.0
25°	8208.7	8184.3	8184.3	8181.6	8173.4	8165.2	8149.1	8157.1
27.5°	8593.8	8580.3	8591.2	8588.4	8580.3	8580.3	8569.6	8569.6
30°	9068.6	9063.2	9079.4	9065.9	9038.7	9036.1	9025.2	9011.6
32.5°	9616.5	9611.1	9635.6	9619.3	9575.9	9551.5	9529.8	9518.9
35°	10226.9	10229.7	10259.5	10248.7	10199.9	10183.5	10145.5	10140.2
37.5°	10894.3	10937.7	10989.2	11000.0	10959.4	10948.5	10907.8	10886.1
40°	11678.2	11735.2	11813.9	11832.8	11789.4	11781.4	11724.4	11694.6
42.5°	12513.7	12611.5	12709.1	12725.3	12681.9	12638.6	12584.3	12562.5
45°	13446.9	13563.6	13691.1	13723.6	13658.5	13606.9	13536.5	13536.5
47.5°	14494.1	14640.5	14784.2	14873.9	14814.0	14760.0	14675.8	14621.5
50°	15730.9	15931.8	16118.9	16211.3	16116.2	16013.1	15866.7	15817.8
52.5°	17282.8	17499.7	17662.5	17613.6	17467.2	17323.5	17163.3	17098.2
55°	19263.0	19336.2	19336.2	19151.8	18858.7	18617.4	18365.0	18281.0
57.5°	21739.7	21457.5	21023.6	20472.8	19781.0	19179.0	18772.1	18579.4
60°	24650.4	23294.0	21761.4	20255.8	19018.8	17998.9	17393.9	17117.3
62.5°	26590.0	23041.9	19970.9	17554.0	15774.4	14545.5	13710.0	13384.6
65°	24851.3	19216.9	15104.5	12212.6	10273.0	9022.4	8195.1	7891.3
67.5°	18202.4	12041.7	8043.2	5764.6	4223.7	3369.3	3030.2	2889.0
70°	8170.8	4240.0	2598.7	2029.1	1749.7	1605.9	1543.6	1521.8
72.5°	2463.2	1782.2	1502.9	1356.4	1245.1	1174.7	1123.2	1117.6
75°	1486.5	1237.0	1098.6	1011.9	941.3	884.3	857.3	849.1
77.5°	1039.0	908.7	843.7	781.3	727.0	683.6	659.1	640.2
80°	729.8	667.4	637.4	602.3	567.0	526.2	491.1	474.8
82.5°	488.3	474.8	474.8	453.0	423.2	385.3	314.6	298.3
85°	314.6	311.9	317.5	309.2	287.5	246.9	203.5	192.5
87.5°	146.6	149.2	165.5	162.8	157.4	130.3	103.0	97.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)