

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: P191627

Luminaire Tested: **GAN-AF-09-LED-U-5MQ-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-5MQ-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61323 lumens
Efficiency: N/A
Efficacy: 106.6 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 - G5

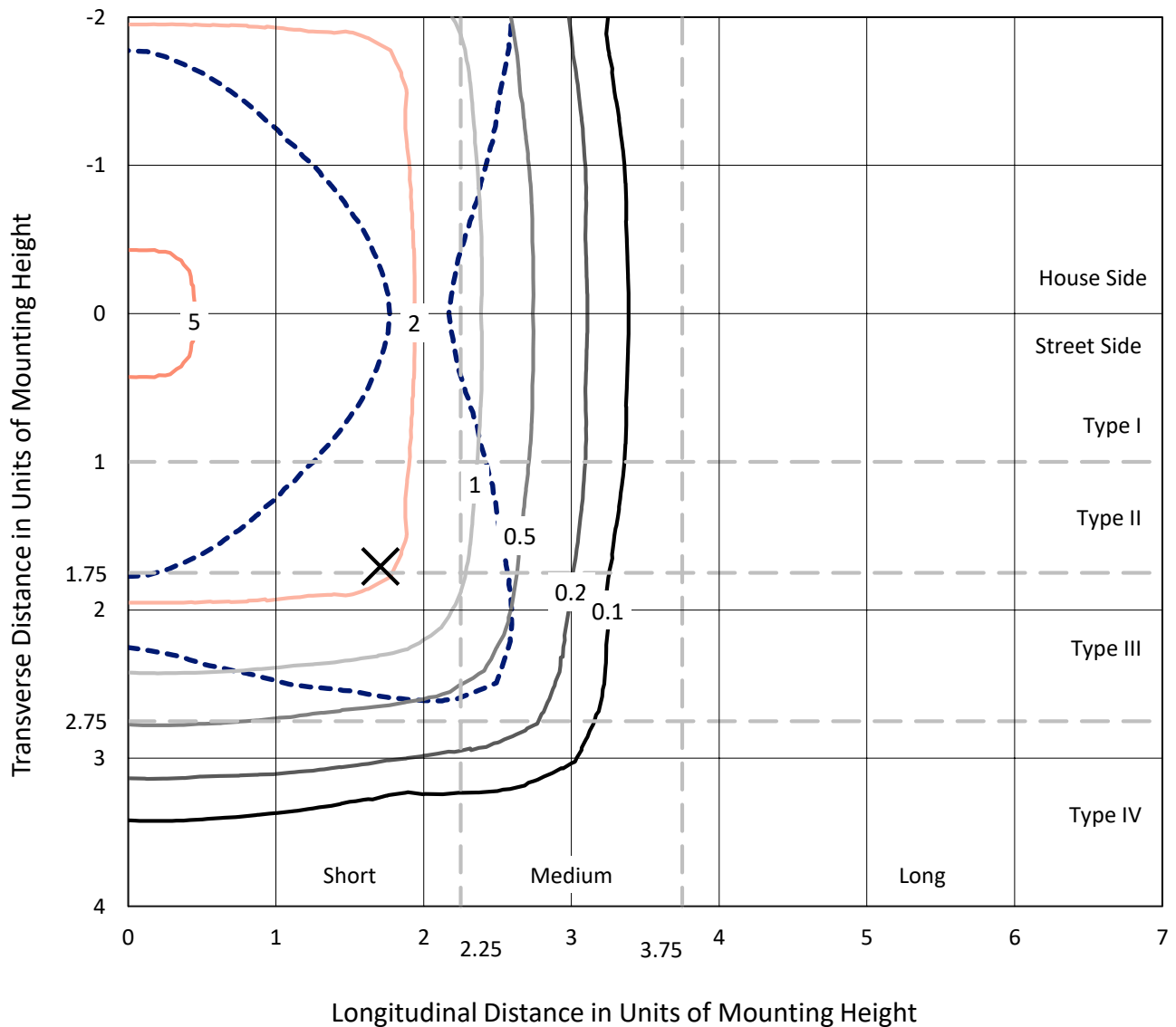
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

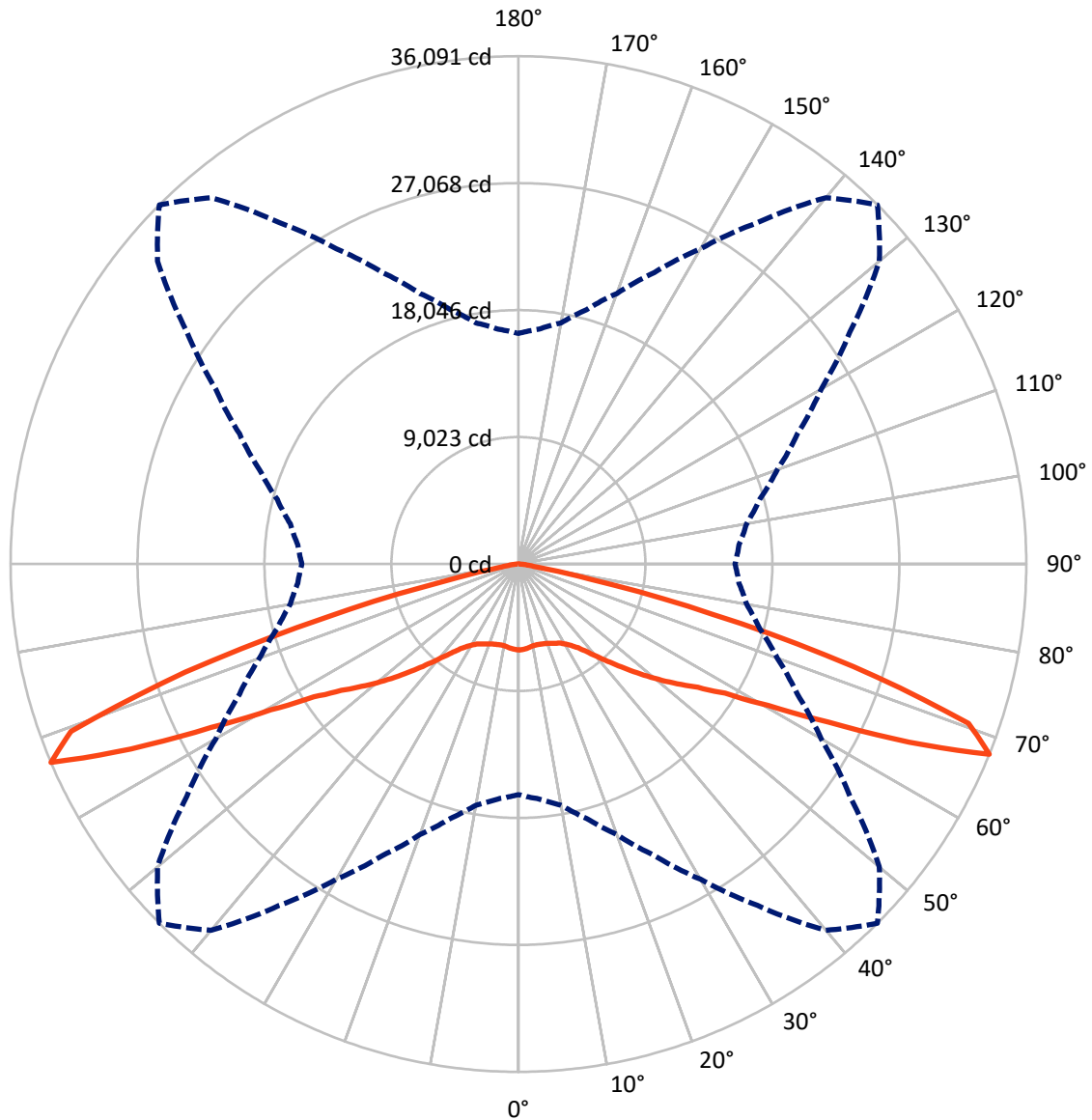
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	30661.5	0.0	30661.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30661.5	0.0	30661.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	61323.0	0.0	61323.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.0	0.9
10°-20°	1659.7	2.7
20°-30°	2821.5	4.6
30°-40°	4612.4	7.5
40°-50°	8233.9	13.4
50°-60°	13882.6	22.6
60°-70°	21543.7	35.1
70°-80°	7569.5	12.3
80°-90°	427.8	0.7
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°	61323.0	100.0
0°-180°	61323.0	100.0



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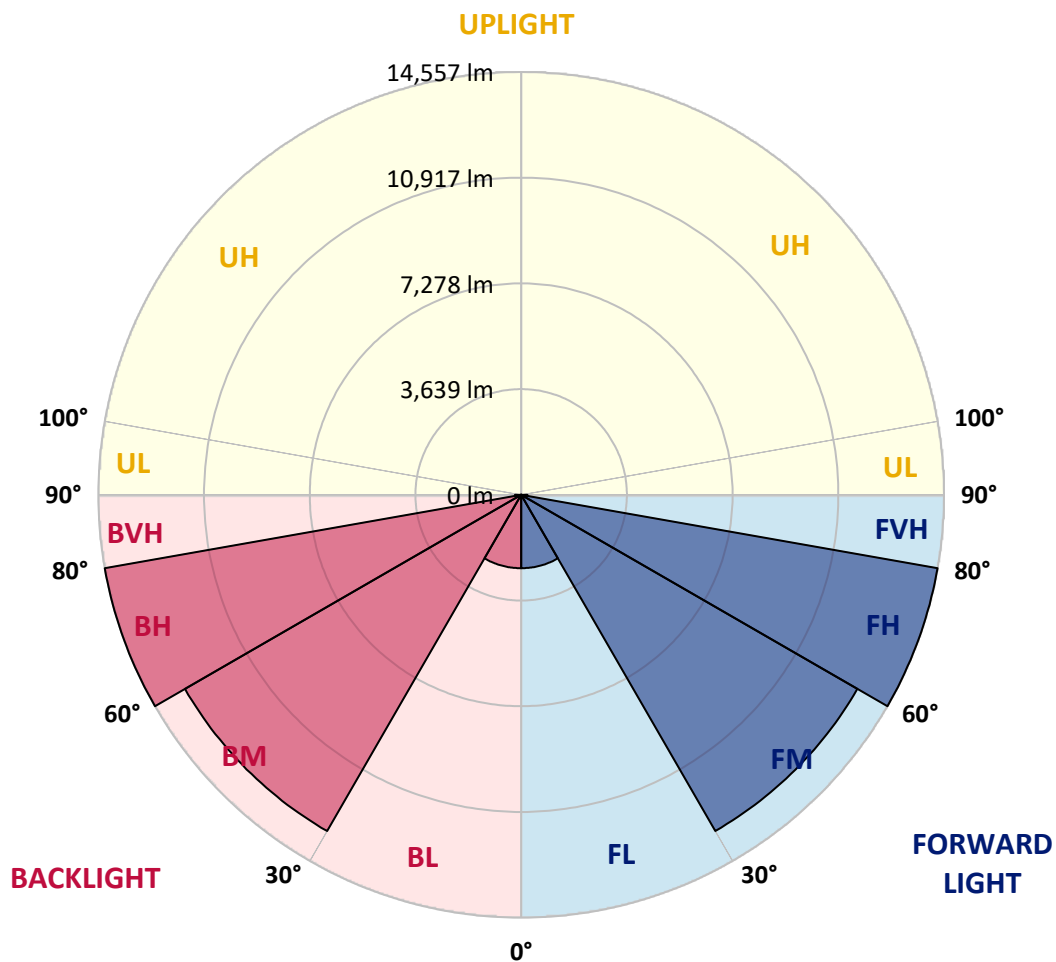
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2526.6	4.1			
FM	(30°-60°)	13364.4	21.8			
FH	(60°-80°)	14556.6	23.7			G5
FVH	(80°-90°)	213.9	0.3			G2/225
BL	(0°-30°)	2526.6	4.1	B4/5000		
BM	(30°-60°)	13364.4	21.8	B5		
BH	(60°-80°)	14556.6	23.7	B5		G5
BVH	(80°-90°)	213.9	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-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6111.1	6111.1	6111.1	6111.1	6111.1	6111.1	6111.1	6111.1	6111.1	6111.1	6111.1
2.5°	6088.5	6094.2	6094.2	6094.2	6091.4	6091.4	6085.7	6091.4	6088.5	6080.1	6082.9
5°	6037.8	6043.4	6043.4	6040.6	6049.1	6046.2	6037.8	6043.4	6040.6	6035.0	6037.8
7.5°	5964.5	5972.9	5972.9	5970.1	5978.6	5975.7	5970.1	5972.9	5972.9	5964.5	5964.5
10°	5882.7	5888.3	5888.3	5885.5	5899.6	5899.6	5896.8	5905.2	5908.1	5899.6	5894.0
12.5°	5806.5	5815.0	5815.0	5826.3	5840.4	5846.0	5860.1	5871.4	5882.7	5879.8	5868.6
15°	5761.4	5767.0	5778.3	5792.4	5815.0	5834.7	5857.3	5882.7	5905.2	5910.9	5894.0
17.5°	5733.2	5741.7	5758.6	5778.3	5809.3	5843.2	5877.0	5910.9	5941.9	5953.2	5933.4
20°	5724.7	5730.4	5747.3	5781.1	5823.4	5874.2	5922.2	5961.6	6003.9	6018.0	6003.9
22.5°	5741.7	5752.9	5772.7	5812.2	5868.6	5933.4	5989.8	6043.4	6097.0	6122.4	6102.6
25°	5817.8	5829.1	5854.5	5905.2	5967.3	6035.0	6099.8	6161.9	6209.8	6235.2	6221.1
27.5°	5958.8	5972.9	6003.9	6054.7	6122.4	6195.7	6266.2	6317.0	6356.4	6364.9	6348.0
30°	6170.3	6201.3	6238.0	6294.4	6373.4	6435.4	6505.9	6551.0	6599.0	6599.0	6584.9
32.5°	6500.3	6531.3	6570.8	6624.3	6686.4	6754.1	6816.1	6855.6	6906.4	6909.2	6875.3
35°	6993.8	7007.9	7041.7	7075.6	7132.0	7191.2	7244.8	7270.1	7312.4	7315.3	7284.2
37.5°	7645.2	7648.0	7670.6	7681.9	7732.6	7797.5	7848.3	7865.2	7904.7	7899.0	7868.0
40°	8403.8	8417.9	8426.4	8443.3	8496.9	8558.9	8612.5	8621.0	8663.3	8654.8	8615.3
42.5°	9280.9	9286.5	9334.4	9359.8	9410.6	9441.6	9509.3	9517.7	9568.5	9545.9	9500.8
45°	10265.1	10315.8	10360.9	10411.7	10465.3	10501.9	10555.5	10544.2	10578.1	10544.2	10518.9
47.5°	11300.0	11336.7	11438.2	11517.2	11604.6	11635.6	11711.8	11677.9	11711.8	11663.8	11655.4
50°	12439.3	12504.2	12591.6	12681.9	12774.9	12825.7	12924.4	12882.1	12927.2	12882.1	12856.7
52.5°	13561.7	13578.6	13770.4	13903.0	14032.7	14091.9	14151.1	14131.4	14134.2	14131.4	14106.0
55°	14627.7	14667.2	14859.0	15039.4	15265.0	15431.4	15533.0	15521.7	15496.3	15470.9	15428.6
57.5°	15829.1	15868.5	16088.5	16311.3	16567.9	16804.8	17010.7	17222.2	17304.0	17326.5	17233.5
60°	17453.4	17450.6	17743.9	18014.6	18381.2	18733.7	19184.9	19644.6	20172.0	20417.3	20093.0
62.5°	19106.0	19173.7	19596.7	20076.1	20831.9	21567.9	22399.8	23217.7	24052.4	24732.0	24010.1
65°	18908.6	19168.0	19796.9	20882.6	22278.6	23936.8	25730.3	27628.2	29342.8	30521.6	29199.0
67.5°	16387.4	16756.9	17397.0	18716.8	20462.4	22853.9	25865.7	29619.2	33981.9	36091.3	33477.1
70°	11878.1	12295.5	12966.7	14255.5	15984.2	18257.1	21528.4	26034.9	31810.4	33936.7	31057.5
72.5°	5910.9	6136.5	6551.0	7371.7	8680.2	10524.5	13491.2	17822.9	22932.8	24884.3	22253.2
75°	2007.9	2112.2	2182.7	2450.6	2865.2	3590.0	5064.8	7791.9	11886.6	14249.8	11717.4
77.5°	1159.0	1161.9	1209.8	1257.8	1328.3	1407.2	1604.6	2106.6	3643.5	5174.8	3770.4
80°	750.1	747.3	786.8	823.5	871.4	910.9	922.2	975.7	1125.2	1333.9	1192.9
82.5°	389.2	437.1	524.5	572.5	662.7	679.6	657.1	637.3	674.0	699.4	716.3
85°	214.3	186.1	279.2	361.0	400.5	406.1	406.1	383.5	397.6	389.2	423.0
87.5°	98.7	90.2	110.0	177.7	188.9	160.7	169.2	149.5	107.2	104.3	118.4
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°	6111.1	6111.1	6111.1	6111.1	6111.1	6111.1	6111.1	6111.1
2.5°	6082.9	6085.7	6085.7	6094.2	6097.0	6102.6	6108.3	6111.1
5°	6035.0	6043.4	6037.8	6046.2	6046.2	6051.9	6051.9	6054.7
7.5°	5964.5	5972.9	5972.9	5972.9	5970.1	5978.6	5978.6	5978.6
10°	5891.1	5896.8	5894.0	5888.3	5882.7	5891.1	5888.3	5885.5
12.5°	5868.6	5854.5	5843.2	5837.5	5826.3	5829.1	5820.6	5820.6
15°	5882.7	5857.3	5837.5	5829.1	5817.8	5812.2	5806.5	5809.3
17.5°	5919.3	5888.3	5862.9	5848.8	5834.7	5826.3	5815.0	5817.8
20°	5984.2	5947.5	5910.9	5882.7	5857.3	5843.2	5834.7	5831.9
22.5°	6080.1	6026.5	5972.9	5930.6	5896.8	5877.0	5868.6	5862.9
25°	6190.1	6130.8	6068.8	6020.9	5987.0	5961.6	5944.7	5944.7
27.5°	6328.2	6280.3	6223.9	6167.5	6136.5	6111.1	6099.8	6094.2
30°	6559.5	6514.4	6469.2	6415.7	6376.2	6350.8	6331.1	6314.1
32.5°	6855.6	6818.9	6782.3	6742.8	6706.1	6672.3	6641.3	6627.2
35°	7273.0	7244.8	7219.4	7174.3	7160.2	7140.4	7123.5	7109.4
37.5°	7848.3	7837.0	7837.0	7789.0	7777.8	7769.3	7752.4	7755.2
40°	8604.0	8615.3	8601.2	8584.3	8575.8	8553.3	8553.3	8573.0
42.5°	9498.0	9506.5	9537.5	9509.3	9540.3	9512.1	9495.2	9509.3
45°	10535.8	10566.8	10628.9	10600.6	10620.4	10572.4	10513.2	10516.0
47.5°	11700.5	11728.7	11754.1	11734.3	11737.1	11658.2	11579.2	11559.5
50°	12910.3	12921.6	12935.7	12907.5	12913.1	12825.7	12735.4	12738.3
52.5°	14106.0	14159.6	14216.0	14139.8	14122.9	14024.2	13897.3	13846.6
55°	15473.7	15549.9	15485.0	15352.5	15219.9	15087.4	14921.0	14892.8
57.5°	17160.1	17030.4	16827.4	16576.4	16393.1	16207.0	16037.7	15967.2
60°	19506.4	19018.6	18652.0	18279.7	18045.6	17817.2	17594.4	17560.6
62.5°	22822.8	21979.6	21249.2	20479.4	19850.5	19359.8	18967.8	18857.8
65°	26979.6	24985.8	23257.1	21644.1	20242.5	19184.9	18519.4	18226.1
67.5°	28767.6	24830.7	21866.8	19576.9	17743.9	16463.6	15744.5	15386.3
70°	25279.1	20592.2	17368.8	15076.1	13406.6	12041.7	11390.3	11006.7
72.5°	17391.4	13099.2	10358.1	8454.6	7120.7	5978.6	5527.3	5493.5
75°	7808.8	5172.0	3564.6	2746.7	2312.5	2010.7	1917.6	1847.1
77.5°	2185.6	1615.9	1441.1	1348.0	1257.8	1153.4	1113.9	1122.4
80°	1063.2	1003.9	964.5	905.2	823.5	736.0	696.6	713.5
82.5°	705.0	696.6	721.9	679.6	561.2	476.6	400.5	366.6
85°	428.7	434.3	442.8	445.6	377.9	265.1	180.5	203.0
87.5°	169.2	194.6	211.5	220.0	205.9	126.9	101.5	104.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)