

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: P190827

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190827
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-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 62730.4 lumens
Efficiency: N/A
Efficacy: 109.1 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

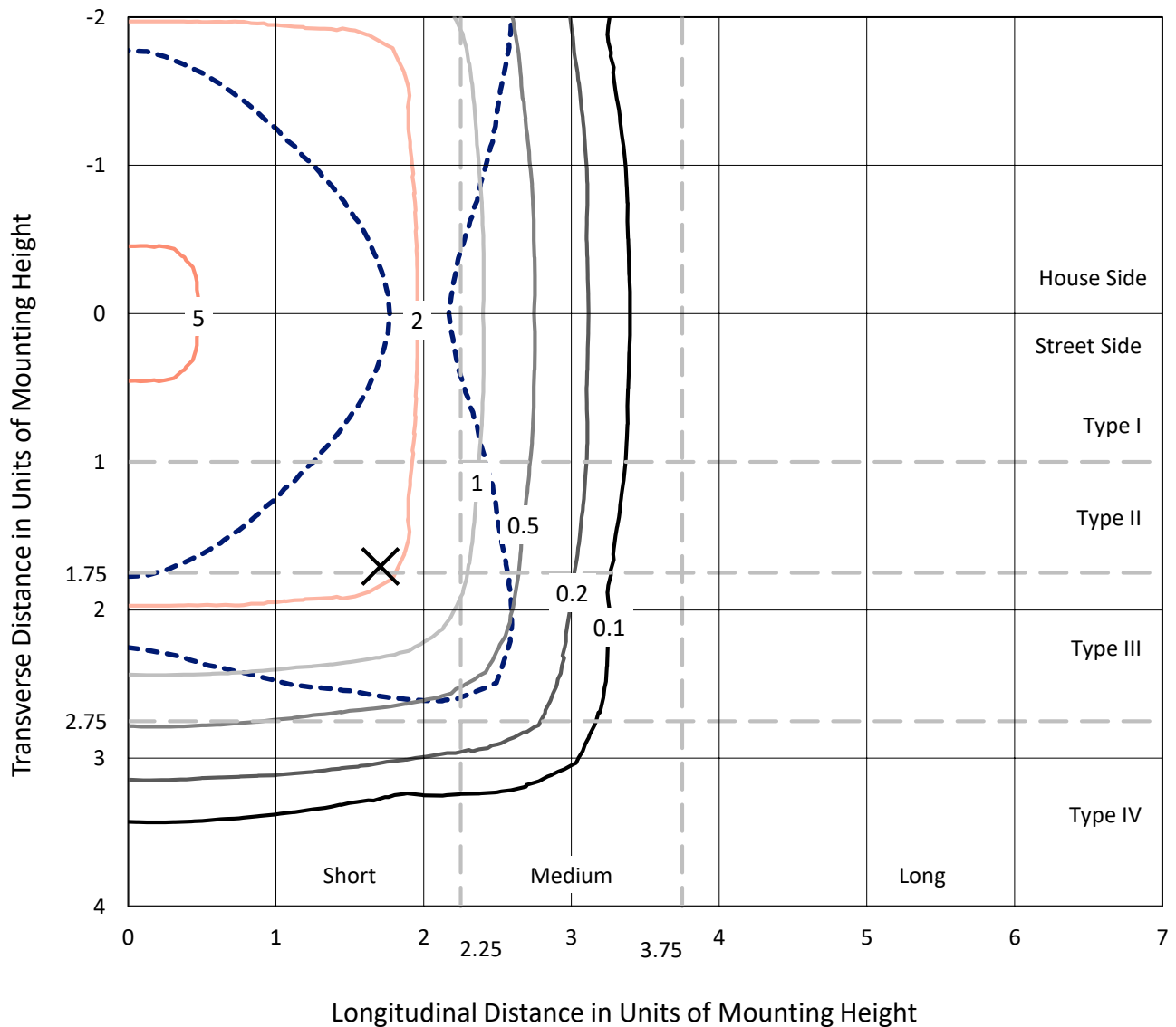
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

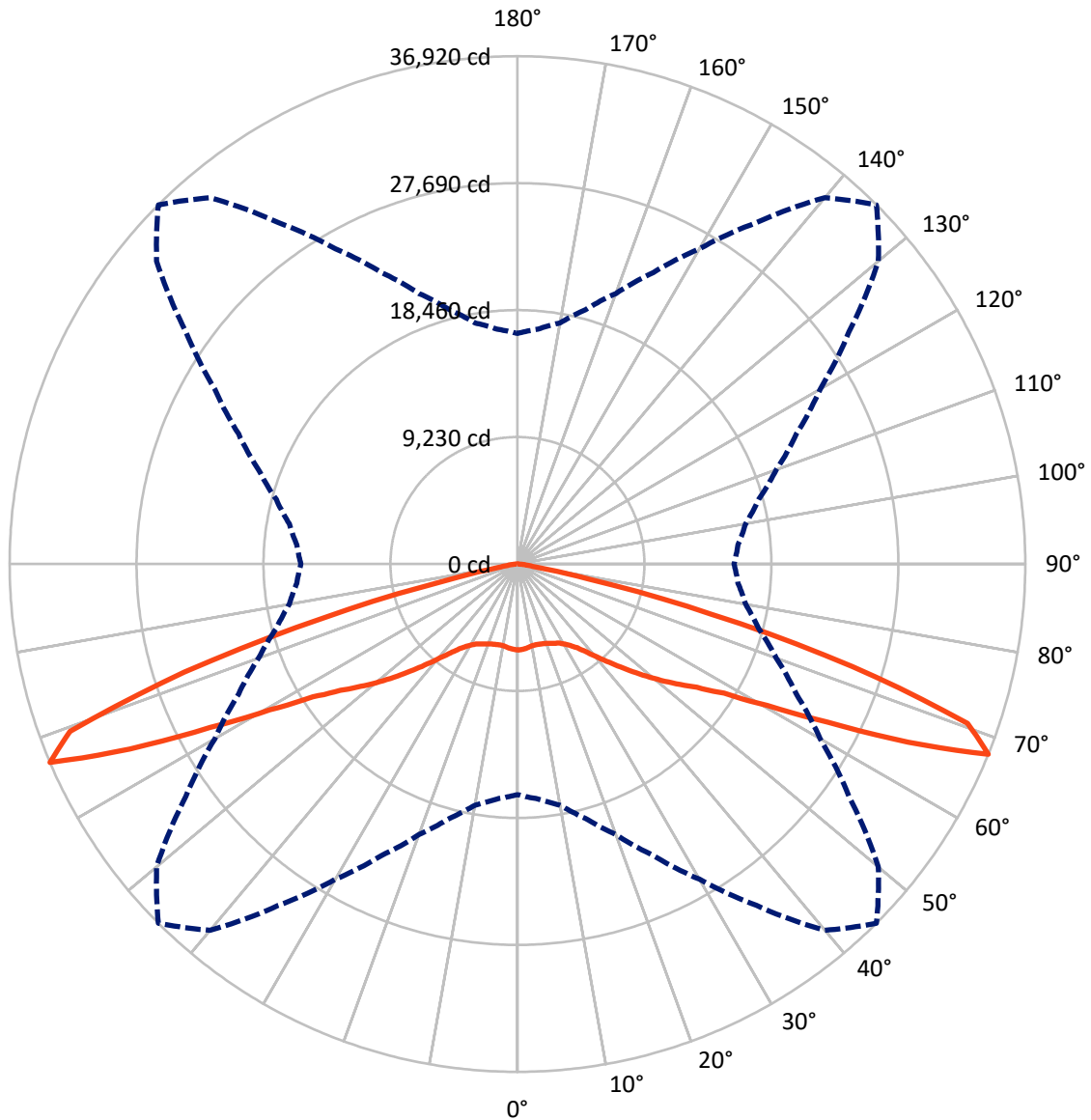


Based on 30 foot mounting height. Maximum calculated value = 6.9 fc
 Type V - Short - Full Cutoff

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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	31365.2	0.0	31365.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	31365.2	0.0	31365.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	62730.4	0.0	62730.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	585.1	0.9
10°-20°	1697.8	2.7
20°-30°	2886.3	4.6
30°-40°	4718.2	7.5
40°-50°	8422.9	13.4
50°-60°	14201.2	22.6
60°-70°	22038.1	35.1
70°-80°	7743.2	12.3
80°-90°	437.6	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°	62730.4	100.0
0°-180°	62730.4	100.0

Coefficient of Utilization



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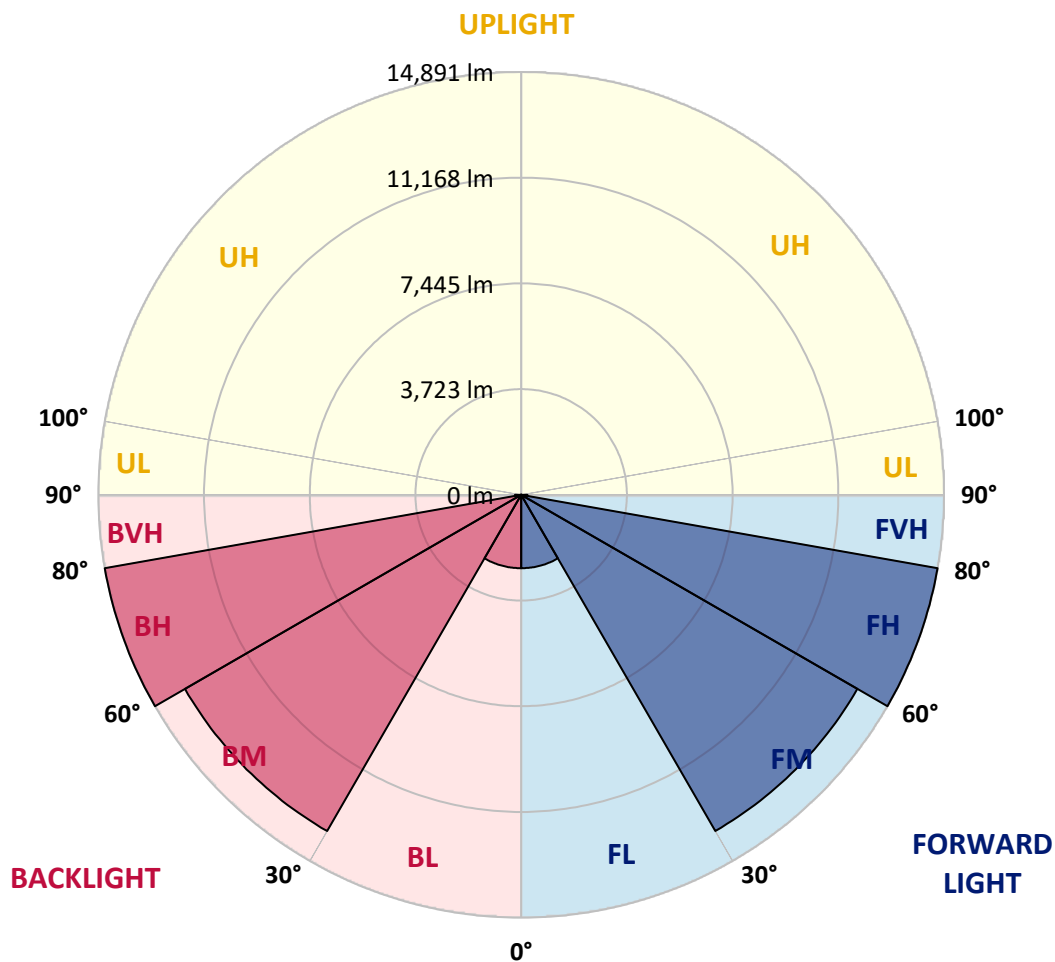
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2584.6	4.1			
FM	(30°-60°)	13671.1	21.8			
FH	(60°-80°)	14890.7	23.7			G5
FVH	(80°-90°)	218.8	0.3			G2/225
BL	(0°-30°)	2584.6	4.1	B4/5000		
BM	(30°-60°)	13671.1	21.8	B5		
BH	(60°-80°)	14890.7	23.7	B5		G5
BVH	(80°-90°)	218.8	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-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6251.4	6251.4	6251.4	6251.4	6251.4	6251.4	6251.4	6251.4	6251.4	6251.4	6251.4
2.5°	6228.2	6234.1	6234.1	6234.1	6231.2	6231.2	6225.4	6231.2	6228.2	6219.6	6222.5
5°	6176.4	6182.1	6182.1	6179.2	6187.9	6185.0	6176.4	6182.1	6179.2	6173.5	6176.4
7.5°	6101.4	6110.0	6110.0	6107.1	6115.8	6112.8	6107.1	6110.0	6110.0	6101.4	6101.4
10°	6017.7	6023.4	6023.4	6020.6	6035.0	6035.0	6032.1	6040.7	6043.7	6035.0	6029.3
12.5°	5939.8	5948.5	5948.5	5960.0	5974.4	5980.2	5994.6	6006.2	6017.7	6014.7	6003.3
15°	5893.6	5899.4	5910.9	5925.3	5948.5	5968.6	5991.7	6017.7	6040.7	6046.6	6029.3
17.5°	5864.8	5873.5	5890.8	5910.9	5942.6	5977.3	6011.9	6046.6	6078.3	6089.8	6069.6
20°	5856.1	5861.9	5879.2	5913.8	5957.1	6009.0	6058.1	6098.4	6141.7	6156.1	6141.7
22.5°	5873.5	5884.9	5905.2	5945.6	6003.3	6069.6	6127.3	6182.1	6236.9	6262.9	6242.7
25°	5951.3	5962.9	5988.9	6040.7	6104.3	6173.5	6239.8	6303.3	6352.3	6378.3	6363.9
27.5°	6095.6	6110.0	6141.7	6193.7	6262.9	6337.9	6410.0	6462.0	6502.3	6511.0	6493.7
30°	6311.9	6343.6	6381.2	6438.9	6519.7	6583.1	6655.2	6701.4	6750.5	6750.5	6736.0
32.5°	6649.5	6681.2	6721.6	6776.3	6839.9	6909.1	6972.5	7012.9	7064.9	7067.8	7033.1
35°	7154.3	7168.7	7203.3	7238.0	7295.7	7356.2	7411.1	7437.0	7480.2	7483.2	7451.4
37.5°	7820.7	7823.5	7846.6	7858.2	7910.1	7976.5	8028.4	8045.7	8086.1	8080.3	8048.6
40°	8596.7	8611.1	8619.8	8637.1	8691.9	8755.3	8810.2	8818.9	8862.1	8853.4	8813.0
42.5°	9493.9	9499.6	9548.6	9574.6	9626.6	9658.3	9727.5	9736.1	9788.1	9765.0	9718.9
45°	10500.7	10552.6	10598.7	10650.7	10705.5	10742.9	10797.8	10786.2	10820.9	10786.2	10760.3
47.5°	11559.3	11596.9	11700.7	11781.5	11870.9	11902.6	11980.6	11945.9	11980.6	11931.5	11922.9
50°	12724.8	12791.2	12880.6	12973.0	13068.1	13120.1	13221.0	13177.8	13223.9	13177.8	13151.8
52.5°	13873.0	13890.2	14086.4	14222.1	14354.8	14415.3	14475.9	14455.7	14458.6	14455.7	14429.7
55°	14963.4	15003.8	15200.0	15384.6	15615.3	15785.6	15889.5	15877.9	15852.0	15826.0	15782.7
57.5°	16192.4	16232.7	16457.7	16685.7	16948.1	17190.5	17401.1	17617.5	17701.1	17724.2	17629.0
60°	17854.0	17851.1	18151.1	18428.0	18803.1	19163.7	19625.2	20095.5	20635.0	20885.9	20554.2
62.5°	19544.5	19613.8	20046.5	20536.9	21310.0	22062.9	22913.9	23750.6	24604.4	25299.6	24561.2
65°	19342.6	19607.9	20251.3	21361.9	22789.9	24486.2	26320.8	28262.3	30016.2	31222.1	29869.1
67.5°	16763.5	17141.5	17796.3	19146.4	20932.0	23378.4	26459.3	30299.0	34761.8	36919.6	34245.4
70°	12150.7	12577.7	13264.3	14582.7	16351.1	18676.1	22022.5	26632.4	32540.5	34715.6	31770.3
72.5°	6046.6	6277.3	6701.4	7540.9	8879.4	10766.0	13800.8	18232.0	23459.1	25455.4	22763.9
75°	2054.0	2160.7	2232.8	2506.8	2931.0	3672.4	5181.0	7970.7	12159.4	14576.8	11986.3
77.5°	1185.6	1188.6	1237.6	1286.7	1358.8	1439.5	1641.4	2154.9	3727.1	5293.6	3856.9
80°	767.3	764.5	804.9	842.4	891.4	931.8	943.4	998.1	1151.0	1364.5	1220.3
82.5°	398.1	447.1	536.5	585.6	677.9	695.2	672.2	651.9	689.5	715.5	732.7
85°	219.2	190.4	285.6	369.3	409.7	415.4	415.4	392.3	406.7	398.1	432.7
87.5°	101.0	92.3	112.5	181.8	193.2	164.4	173.1	152.9	109.7	106.7	121.1
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°	6251.4	6251.4	6251.4	6251.4	6251.4	6251.4	6251.4	6251.4
2.5°	6222.5	6225.4	6225.4	6234.1	6236.9	6242.7	6248.5	6251.4
5°	6173.5	6182.1	6176.4	6185.0	6185.0	6190.8	6190.8	6193.7
7.5°	6101.4	6110.0	6110.0	6110.0	6107.1	6115.8	6115.8	6115.8
10°	6026.3	6032.1	6029.3	6023.4	6017.7	6026.3	6023.4	6020.6
12.5°	6003.3	5988.9	5977.3	5971.5	5960.0	5962.9	5954.2	5954.2
15°	6017.7	5991.7	5971.5	5962.9	5951.3	5945.6	5939.8	5942.6
17.5°	6055.2	6023.4	5997.5	5983.0	5968.6	5960.0	5948.5	5951.3
20°	6121.5	6084.0	6046.6	6017.7	5991.7	5977.3	5968.6	5965.7
22.5°	6219.6	6164.8	6110.0	6066.7	6032.1	6011.9	6003.3	5997.5
25°	6332.2	6271.5	6208.1	6159.1	6124.4	6098.4	6081.1	6081.1
27.5°	6473.4	6424.4	6366.7	6309.0	6277.3	6251.4	6239.8	6234.1
30°	6710.0	6663.9	6617.7	6562.9	6522.5	6496.6	6476.4	6459.0
32.5°	7012.9	6975.4	6938.0	6897.6	6860.0	6825.4	6793.7	6779.3
35°	7439.9	7411.1	7385.1	7339.0	7324.5	7304.3	7287.0	7272.6
37.5°	8028.4	8016.9	8016.9	7967.8	7956.3	7947.6	7930.3	7933.2
40°	8801.5	8813.0	8798.6	8781.3	8772.6	8749.6	8749.6	8769.8
42.5°	9716.0	9724.7	9756.4	9727.5	9759.3	9730.4	9713.1	9727.5
45°	10777.6	10809.3	10872.8	10843.9	10864.1	10815.0	10754.5	10757.4
47.5°	11969.0	11997.9	12023.9	12003.6	12006.5	11925.8	11845.0	11824.8
50°	13206.6	13218.2	13232.6	13203.7	13209.5	13120.1	13027.7	13030.7
52.5°	14429.7	14484.6	14542.3	14464.3	14447.0	14346.1	14216.3	14164.4
55°	15828.8	15906.8	15840.4	15704.9	15569.2	15433.7	15263.4	15234.6
57.5°	17553.9	17421.3	17213.6	16956.8	16769.3	16579.0	16405.8	16333.7
60°	19954.1	19455.1	19080.1	18699.2	18459.8	18226.1	17998.2	17963.6
62.5°	23346.6	22484.0	21736.9	20949.4	20306.1	19804.1	19403.1	19290.6
65°	27598.8	25559.2	23790.9	22140.8	20707.1	19625.2	18944.4	18644.4
67.5°	29427.8	25400.6	22368.7	20026.2	18151.1	16841.5	16105.8	15739.4
70°	25859.3	21064.8	17767.4	15422.1	13714.3	12318.1	11651.7	11259.3
72.5°	17790.5	13399.8	10595.8	8648.6	7284.1	6115.8	5654.2	5619.6
75°	7988.0	5290.7	3646.4	2809.7	2365.6	2056.8	1961.6	1889.5
77.5°	2235.8	1653.0	1474.2	1378.9	1286.7	1179.9	1139.5	1148.2
80°	1087.6	1026.9	986.6	926.0	842.4	752.9	712.6	729.9
82.5°	721.2	712.6	738.5	695.2	574.1	487.5	409.7	375.0
85°	438.5	444.3	453.0	455.8	386.6	271.2	184.6	207.7
87.5°	173.1	199.1	216.4	225.0	210.6	129.8	103.8	106.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)