

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: P191008

Luminaire Tested: **GAN-AF-10-LED-U-RW-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
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-RW-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49774.7 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B5 - U0 - G4

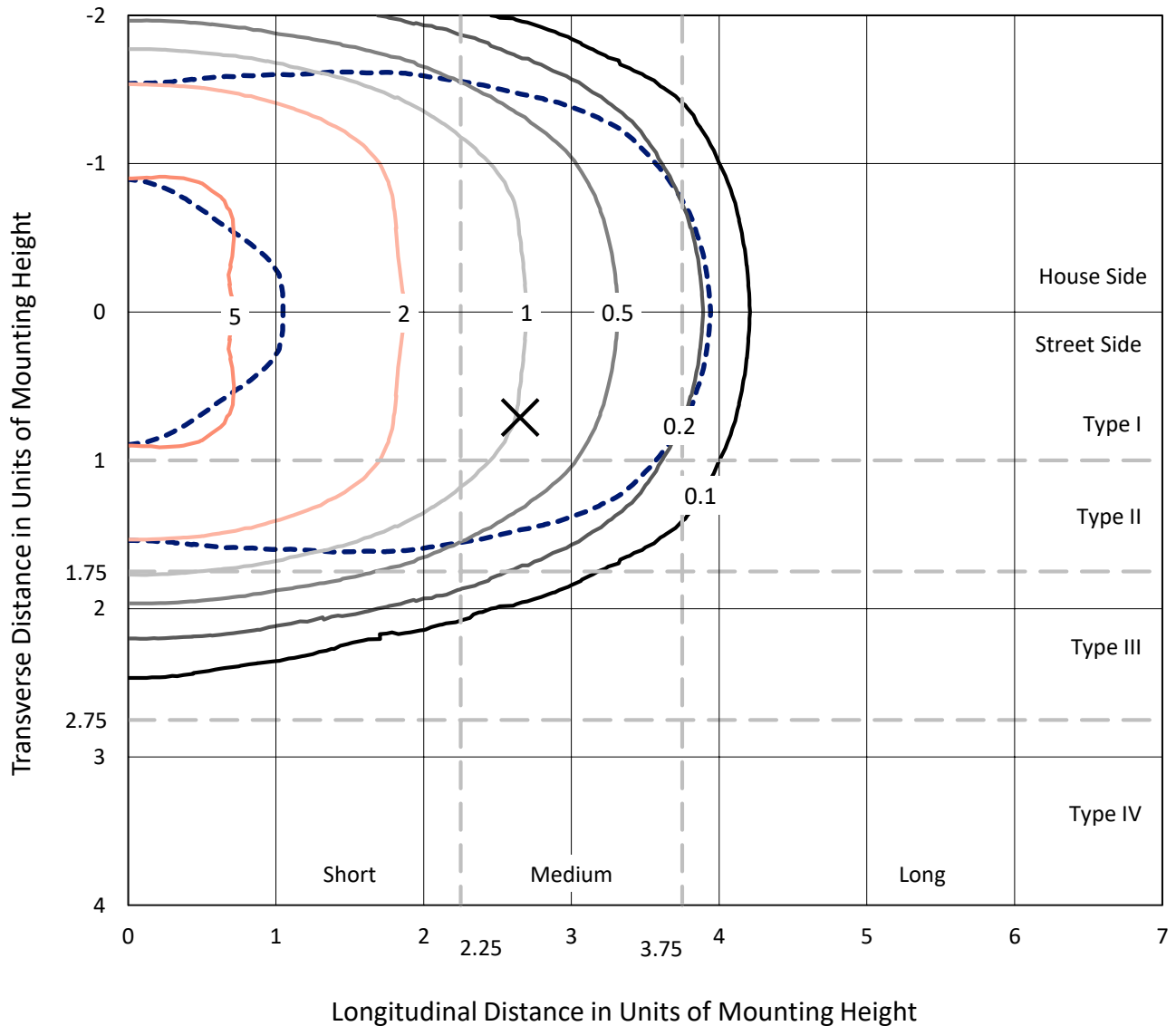
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

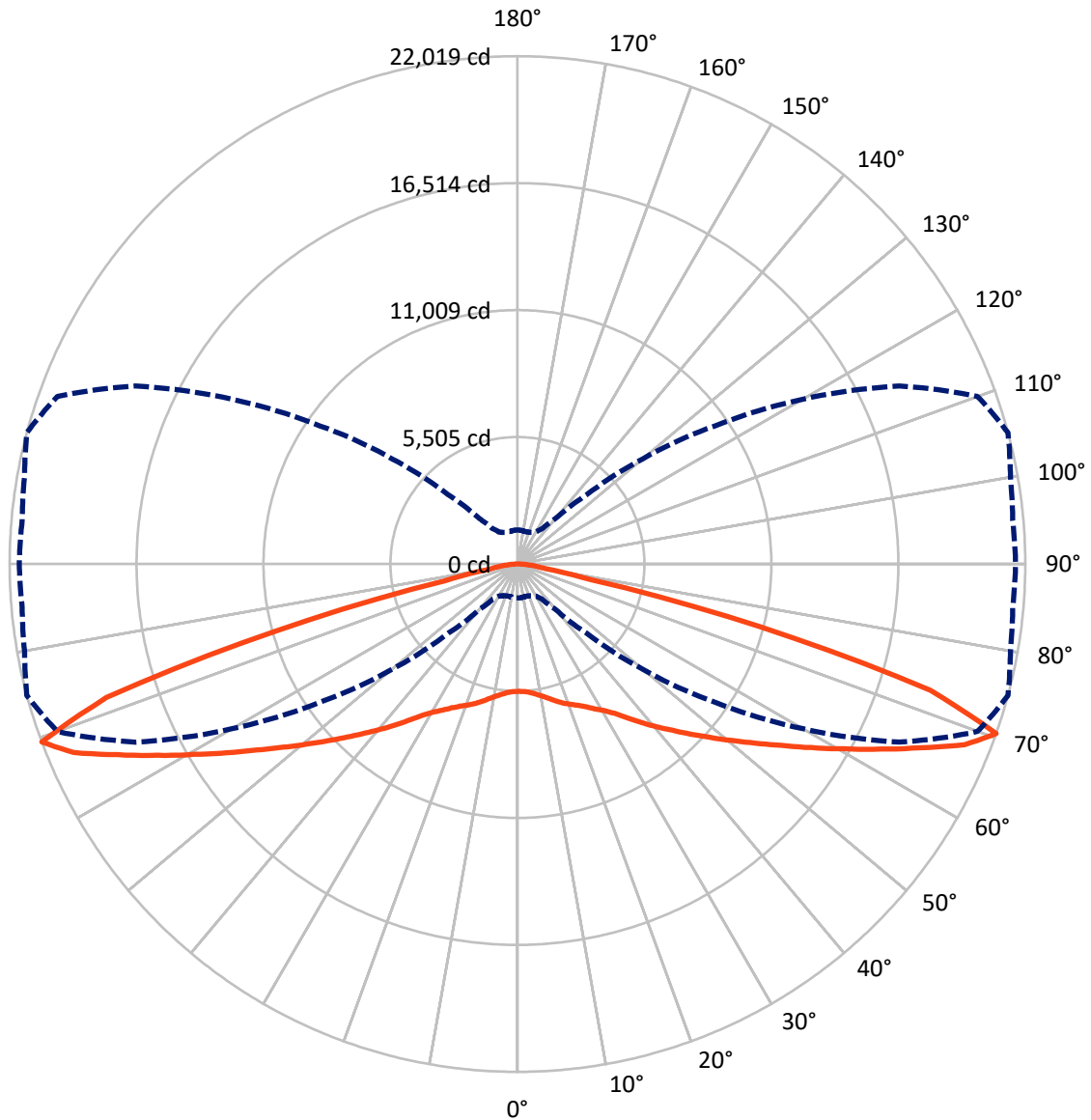
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24887.4	0.0	24887.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24887.4	0.0	24887.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	49774.7	0.0	49774.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.5	1.1
10°-20°	1645.3	3.3
20°-30°	3096.7	6.2
30°-40°	5483.7	11.0
40°-50°	9170.5	18.4
50°-60°	12779.1	25.7
60°-70°	11850.6	23.8
70°-80°	4722.8	9.5
80°-90°	496.4	1.0
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°	49774.7	100.0
0°-180°	49774.7	100.0



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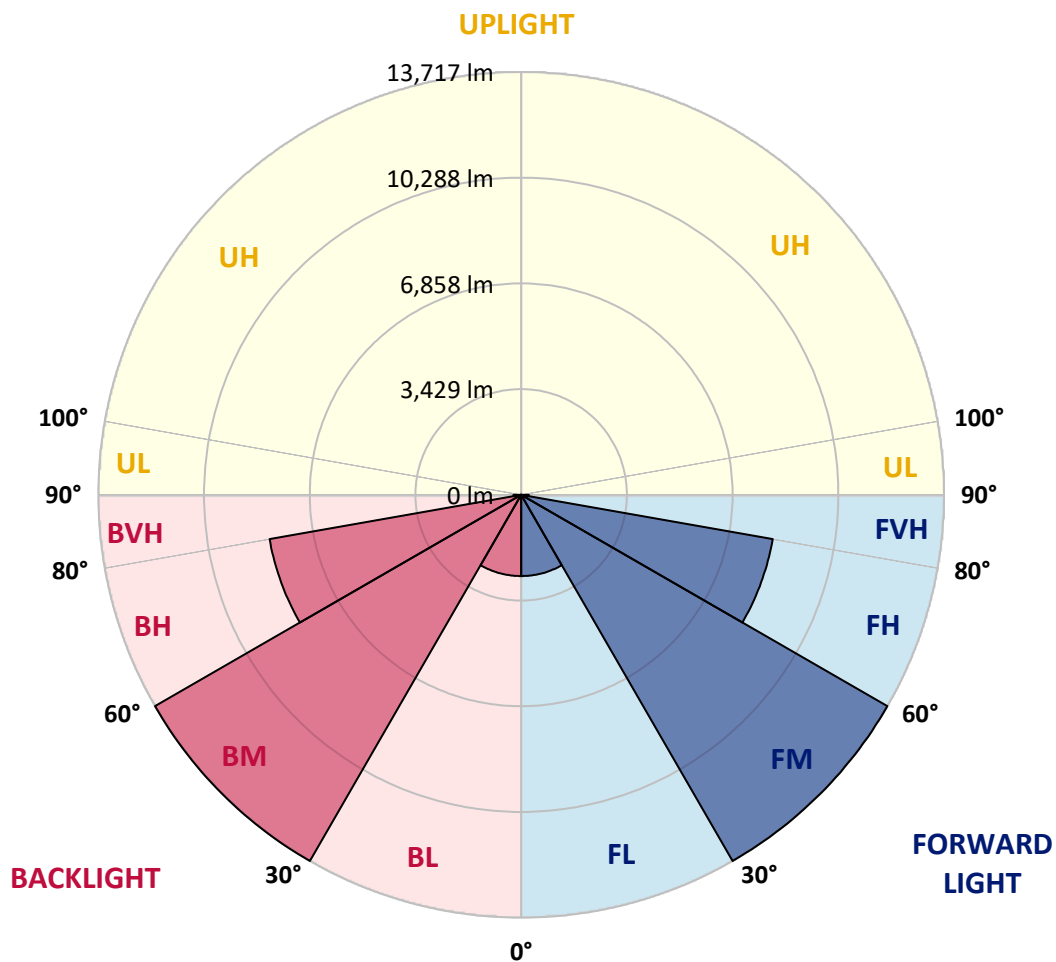
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2635.8	5.3			
FM	(30°-60°)	13716.7	27.6			
FH	(60°-80°)	8286.7	16.6			G4/12000
FVH	(80°-90°)	248.2	0.5			G3/500
BL	(0°-30°)	2635.8	5.3	B4/5000		
BM	(30°-60°)	13716.7	27.6	B5		
BH	(60°-80°)	8286.7	16.6	B5		G4/12000
BVH	(80°-90°)	248.2	0.5			G3/500
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5521.2	5521.2	5521.2	5521.2	5521.2	5521.2	5521.2	5521.2	5521.2	5521.2	5521.2
2.5°	5511.8	5507.1	5511.8	5509.4	5514.1	5514.1	5518.8	5528.2	5528.2	5535.3	5532.9
5°	5457.6	5455.3	5462.4	5469.4	5476.5	5490.6	5504.7	5525.9	5542.3	5554.1	5565.9
7.5°	5351.8	5351.8	5361.2	5377.7	5394.1	5424.7	5457.6	5500.0	5542.3	5577.6	5608.2
10°	5264.7	5269.4	5281.2	5309.4	5337.7	5384.7	5429.4	5490.6	5549.4	5608.2	5655.3
12.5°	5213.1	5220.0	5241.2	5283.5	5330.6	5394.1	5462.4	5540.0	5605.9	5676.5	5723.5
15°	5229.4	5234.1	5264.7	5316.5	5377.7	5457.6	5549.4	5641.2	5718.8	5794.1	5857.6
17.5°	5321.2	5328.2	5363.5	5422.4	5485.9	5580.0	5678.8	5782.3	5878.8	5963.4	6041.0
20°	5485.9	5492.9	5537.6	5601.2	5676.5	5772.9	5871.7	5979.9	6088.1	6177.5	6264.6
22.5°	5718.8	5730.6	5772.9	5836.4	5921.0	6024.6	6142.2	6257.5	6361.0	6443.4	6521.0
25°	6024.6	6050.4	6090.4	6161.0	6250.4	6344.5	6471.6	6589.2	6688.0	6765.6	6822.1
27.5°	6457.5	6492.8	6523.4	6591.6	6678.5	6767.9	6895.0	6998.5	7092.6	7167.9	7210.3
30°	7031.5	7066.7	7097.3	7163.2	7243.2	7327.8	7447.8	7539.6	7598.4	7657.2	7654.8
32.5°	7727.8	7765.4	7777.2	7847.8	7930.1	8021.8	8130.0	8181.8	8228.8	8235.9	8193.5
35°	8506.4	8525.3	8572.3	8666.4	8760.4	8835.7	8939.3	8965.1	8965.1	8929.8	8835.7
37.5°	9360.4	9372.2	9437.9	9543.8	9640.3	9717.9	9788.5	9840.3	9814.4	9739.1	9581.5
40°	10296.6	10317.8	10411.9	10506.0	10614.2	10687.2	10762.5	10771.9	10746.0	10635.4	10421.3
42.5°	11190.6	11209.4	11303.5	11451.7	11592.8	11694.0	11764.5	11778.7	11696.3	11595.1	11329.4
45°	11959.8	12009.2	12131.6	12305.6	12510.3	12653.8	12750.3	12790.3	12717.3	12585.6	12277.4
47.5°	12569.1	12618.5	12792.6	12999.6	13253.7	13486.6	13646.5	13731.2	13712.3	13613.5	13277.2
50°	13016.0	13063.1	13251.3	13505.4	13801.8	14091.1	14364.0	14566.3	14636.9	14592.2	14284.0
52.5°	13067.8	13145.4	13366.6	13707.6	14093.5	14488.7	14876.9	15220.3	15453.2	15488.5	15260.3
55°	12345.6	12423.2	12729.1	13234.8	13808.8	14453.4	15074.4	15653.1	16111.9	16347.1	16227.2
57.5°	10642.5	10781.2	11103.5	11696.3	12540.9	13505.4	14495.7	15523.8	16457.6	17081.0	17201.0
60°	8155.9	8320.6	8645.3	9275.7	10216.6	11367.0	12689.1	14208.8	15857.8	17259.8	18097.3
62.5°	5231.8	5387.1	5728.2	6276.3	7043.2	8290.0	9708.5	11512.8	13728.8	15942.5	17937.3
65°	2688.8	2773.5	2952.3	3284.0	3881.5	4813.1	6085.7	7885.4	10419.0	13150.1	16034.2
67.5°	1703.2	1719.7	1759.6	1806.6	1959.6	2281.9	2874.7	3996.8	6081.0	8929.8	12305.6
70°	1472.6	1472.6	1453.8	1446.8	1465.6	1510.3	1602.0	1863.1	2566.5	4239.1	7097.3
72.5°	1347.9	1333.8	1300.9	1275.0	1270.3	1270.3	1289.1	1329.1	1442.1	1726.7	2778.2
75°	1242.1	1202.1	1157.4	1126.8	1115.0	1103.3	1100.9	1108.0	1131.5	1176.2	1326.8
77.5°	1112.7	1060.9	1009.2	978.7	964.5	948.1	934.0	917.5	905.7	919.8	985.7
80°	957.5	898.7	858.7	839.8	825.7	802.2	771.6	743.4	717.5	712.8	752.8
82.5°	771.6	703.4	705.7	712.8	686.9	654.0	621.0	590.4	545.7	522.2	545.7
85°	623.4	588.1	571.6	616.3	578.7	529.3	477.5	423.4	352.8	296.5	322.3
87.5°	242.3	242.3	362.2	557.5	501.0	409.3	350.5	298.8	185.9	143.5	145.9
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°	5521.2	5521.2	5521.2	5521.2	5521.2	5521.2	5521.2	5521.2
2.5°	5530.6	5535.3	5532.9	5530.6	5530.6	5528.2	5530.6	5530.6
5°	5572.9	5584.7	5584.7	5589.4	5589.4	5591.8	5594.1	5591.8
7.5°	5636.5	5657.6	5671.8	5688.2	5690.6	5692.9	5697.6	5692.9
10°	5700.0	5742.3	5772.9	5803.5	5817.6	5822.3	5827.0	5827.0
12.5°	5780.0	5838.8	5892.9	5946.9	5972.8	5986.9	5986.9	5996.3
15°	5911.6	5970.5	6034.0	6106.9	6151.6	6175.1	6182.2	6182.2
17.5°	6097.5	6149.3	6203.4	6274.0	6330.4	6361.0	6368.1	6365.7
20°	6314.0	6363.4	6394.0	6438.7	6488.1	6523.4	6532.8	6532.8
22.5°	6561.0	6589.2	6593.9	6608.0	6648.0	6695.0	6716.2	6720.9
25°	6833.8	6840.9	6822.1	6822.1	6847.9	6892.6	6913.8	6916.2
27.5°	7186.7	7151.4	7104.4	7087.9	7104.4	7156.2	7182.0	7191.4
30°	7626.6	7541.9	7433.7	7374.9	7365.5	7433.7	7480.7	7487.8
32.5°	8130.0	8007.7	7864.2	7744.2	7713.7	7756.0	7812.5	7810.1
35°	8727.5	8581.7	8407.6	8254.7	8184.1	8226.5	8306.5	8315.9
37.5°	9416.8	9226.3	9026.3	8833.4	8722.8	8734.6	8819.3	8847.5
40°	10186.0	9939.1	9687.3	9428.5	9271.0	9240.4	9343.9	9360.4
42.5°	11009.4	10691.9	10374.3	10054.4	9852.0	9805.0	9925.0	9917.9
45°	11886.9	11482.2	11110.6	10757.8	10517.8	10447.2	10546.0	10546.0
47.5°	12830.3	12331.5	11889.2	11489.3	11228.2	11127.0	11221.2	11228.2
50°	13830.0	13300.7	12780.8	12336.2	12023.4	11894.0	12016.3	12035.1
52.5°	14825.1	14309.9	13785.3	13277.2	12898.4	12740.9	12881.9	12943.1
55°	15834.3	15328.5	14827.5	14331.0	13881.7	13695.9	13846.5	13924.1
57.5°	16900.0	16431.8	15954.2	15453.2	15020.3	14731.0	14891.0	14994.4
60°	18149.1	17749.1	17252.8	16700.0	16262.5	15968.4	16060.1	16151.9
62.5°	19137.1	19292.3	18871.3	18231.4	17669.2	17292.8	17382.2	17478.6
65°	18659.5	20252.2	20626.2	19979.3	19200.6	18614.8	18577.2	18626.6
67.5°	15596.7	18690.1	20946.1	21562.5	20910.9	20096.9	19946.3	20019.2
70°	10433.1	14286.3	18266.7	21230.7	22018.8	21703.6	21555.4	21600.1
72.5°	5010.7	8320.6	12392.6	16333.0	18732.5	19833.4	20186.3	20358.1
75°	1832.5	3302.8	5972.8	9000.4	10865.9	12578.5	13695.9	14152.3
77.5°	1105.6	1333.8	1907.8	2872.3	3253.4	3641.6	3491.0	3566.3
80°	818.7	924.5	1046.8	1176.2	1218.5	1218.5	1171.5	1133.8
82.5°	574.0	642.2	701.0	771.6	790.4	755.1	621.0	494.0
85°	369.3	399.9	425.8	470.5	458.7	437.5	294.1	261.2
87.5°	169.4	192.9	202.3	223.5	214.1	204.7	145.9	122.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)