

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: P191827

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191827
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-09-LED-U-RW-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59672 lumens
Efficiency: N/A
Efficacy: 103.8 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): 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

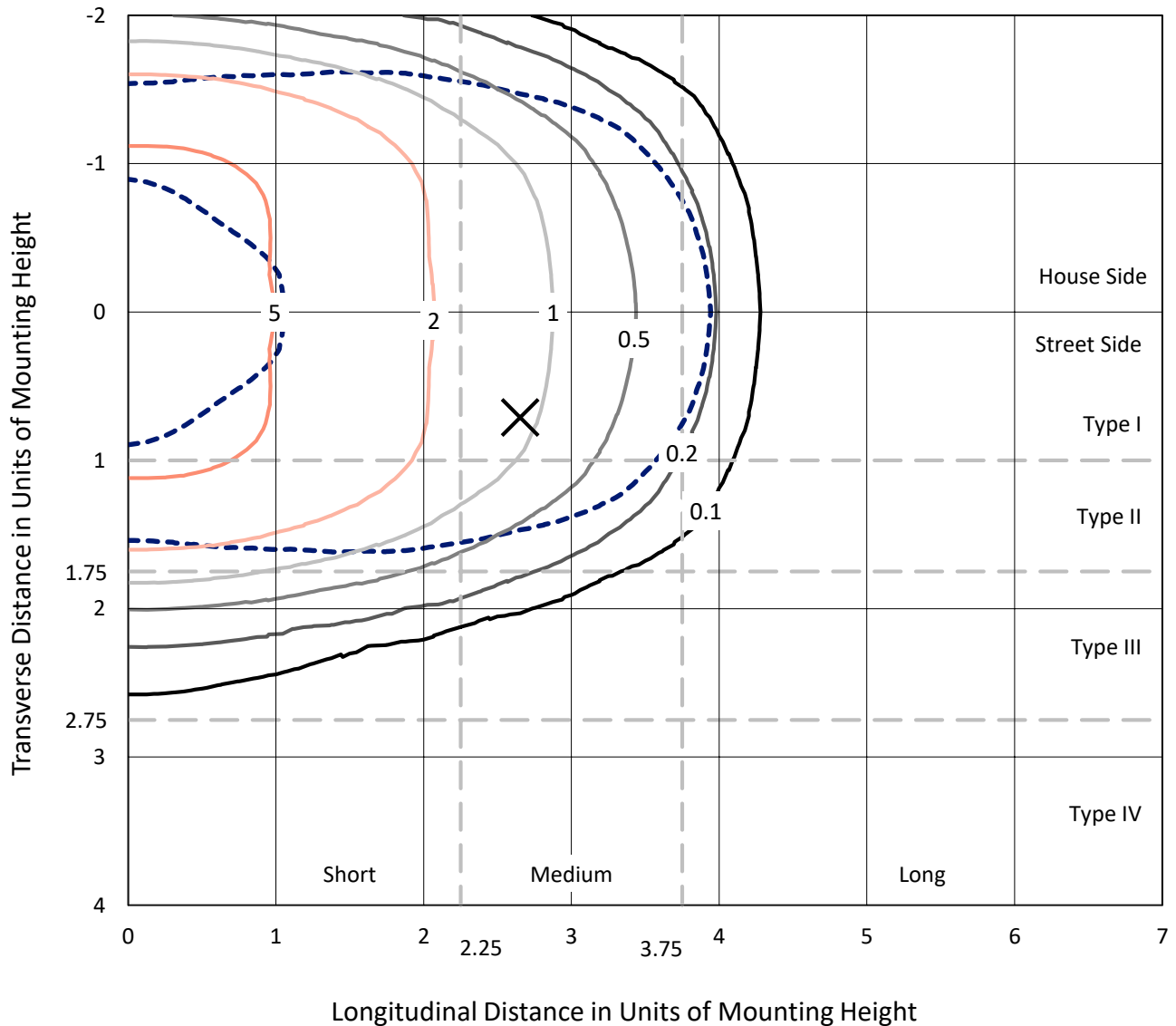


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

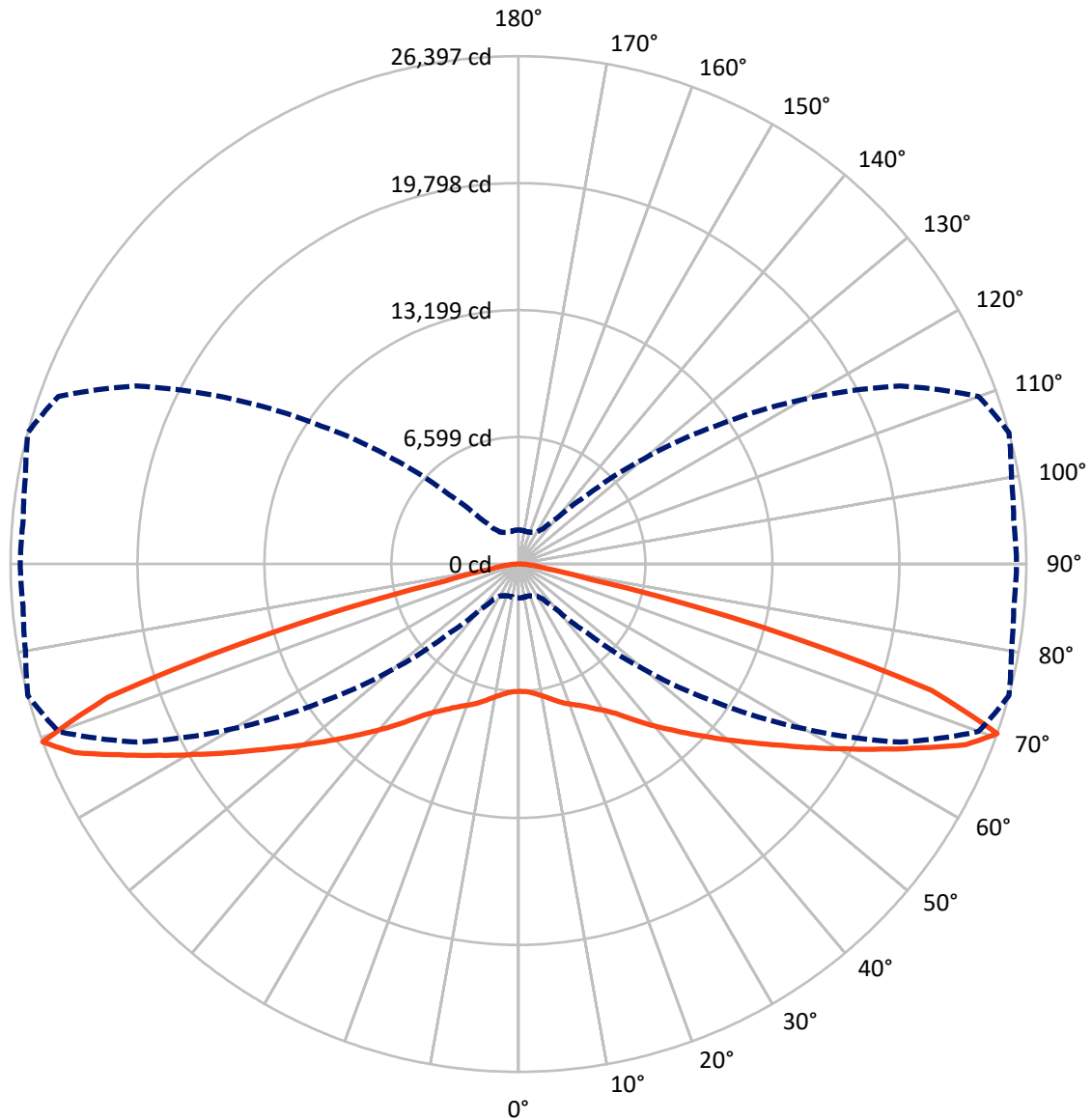


Based on 30 foot mounting height. Maximum calculated value = 7.4 fc
 Type V - Medium - Full Cutoff

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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	29836.0	0.0	29836.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29836.0	0.0	29836.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	59672.0	0.0	59672.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	634.8	1.1
10°-20°	1972.5	3.3
20°-30°	3712.5	6.2
30°-40°	6574.1	11.0
40°-50°	10994.0	18.4
50°-60°	15320.1	25.7
60°-70°	14207.0	23.8
70°-80°	5661.9	9.5
80°-90°	595.2	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°	59672.0	100.0
0°-180°	59672.0	100.0



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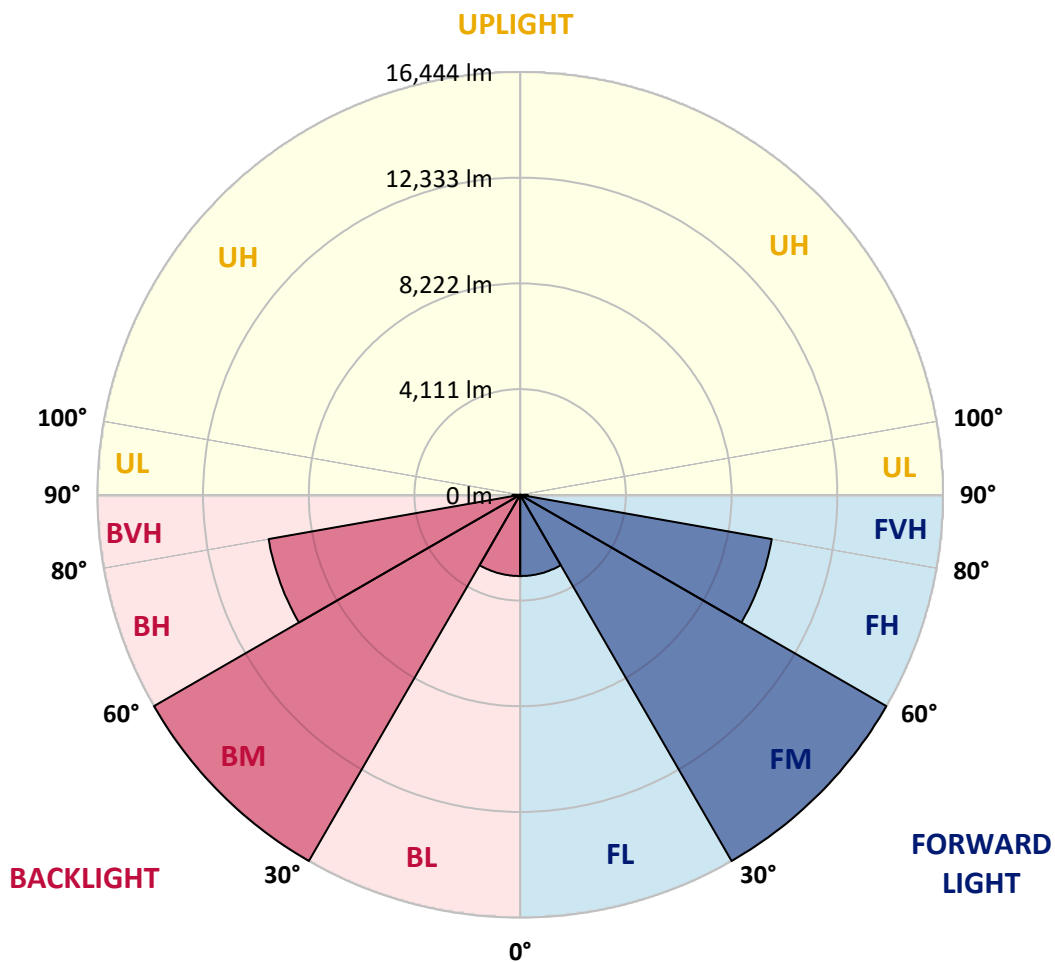
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3159.9	5.3			
FM	(30°-60°)	16444.1	27.6			
FH	(60°-80°)	9934.4	16.6			G4/12000
FVH	(80°-90°)	297.6	0.5			G3/500
BL	(0°-30°)	3159.9	5.3	B4/5000		
BM	(30°-60°)	16444.1	27.6	B5		
BH	(60°-80°)	9934.4	16.6	B5		G4/12000
BVH	(80°-90°)	297.6	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°	6619.0	6619.0	6619.0	6619.0	6619.0	6619.0	6619.0	6619.0	6619.0	6619.0	6619.0
2.5°	6607.7	6602.1	6607.7	6604.9	6610.6	6610.6	6616.2	6627.5	6627.5	6635.9	6633.1
5°	6542.9	6540.0	6548.5	6557.0	6565.4	6582.4	6599.3	6624.7	6644.4	6658.5	6672.6
7.5°	6416.0	6416.0	6427.2	6447.0	6466.7	6503.4	6542.9	6593.6	6644.4	6686.7	6723.4
10°	6311.6	6317.3	6331.4	6365.2	6399.0	6455.4	6509.0	6582.4	6652.9	6723.4	6779.8
12.5°	6249.6	6258.0	6283.4	6334.2	6390.6	6466.7	6548.5	6641.6	6720.5	6805.1	6861.6
15°	6269.3	6275.0	6311.6	6373.7	6447.0	6542.9	6652.9	6762.8	6855.9	6946.2	7022.3
17.5°	6379.3	6387.8	6430.1	6500.6	6576.7	6689.5	6808.0	6932.1	7047.7	7149.2	7242.3
20°	6576.7	6585.2	6638.8	6714.9	6805.1	6920.8	7039.2	7169.0	7298.7	7405.9	7510.2
22.5°	6855.9	6870.0	6920.8	6996.9	7098.4	7222.5	7363.5	7501.7	7625.8	7724.5	7817.6
25°	7222.5	7253.6	7301.5	7386.1	7493.3	7606.1	7758.4	7899.4	8017.8	8110.9	8178.6
27.5°	7741.5	7783.8	7820.4	7902.2	8006.6	8113.7	8266.0	8390.1	8502.9	8593.2	8643.9
30°	8429.6	8471.9	8508.6	8587.5	8683.4	8784.9	8928.8	9038.7	9109.3	9179.8	9176.9
32.5°	9264.4	9309.5	9323.6	9408.2	9506.9	9616.9	9746.6	9808.7	9865.1	9873.5	9822.8
35°	10197.9	10220.4	10276.8	10389.6	10502.4	10592.7	10716.8	10747.8	10747.8	10705.5	10592.7
37.5°	11221.6	11235.7	11314.7	11441.6	11557.2	11650.3	11734.9	11796.9	11765.9	11675.6	11486.7
40°	12344.0	12369.4	12482.2	12595.0	12724.8	12812.2	12902.4	12913.7	12882.7	12750.1	12493.5
42.5°	13415.7	13438.3	13551.1	13728.7	13898.0	14019.2	14103.8	14120.8	14022.0	13900.8	13582.1
45°	14337.9	14397.1	14543.8	14752.5	14997.8	15169.9	15285.5	15333.4	15246.0	15088.1	14718.6
47.5°	15068.3	15127.6	15336.3	15584.4	15889.0	16168.2	16360.0	16461.5	16439.0	16320.5	15917.2
50°	15604.2	15660.6	15886.2	16190.8	16546.1	16893.0	17220.2	17462.7	17547.3	17493.7	17124.3
52.5°	15666.2	15759.3	16024.4	16433.3	16895.8	17369.6	17835.0	18246.7	18525.9	18568.2	18294.7
55°	14800.4	14893.5	15260.1	15866.5	16554.6	17327.3	18071.9	18765.6	19315.6	19597.6	19453.8
57.5°	12758.6	12925.0	13311.4	14022.0	15034.5	16190.8	17378.1	18610.5	19730.1	20477.5	20621.3
60°	9777.6	9975.1	10364.2	11120.1	12248.1	13627.2	15212.2	17034.0	19011.0	20691.8	21695.8
62.5°	6272.1	6458.3	6867.2	7524.3	8443.7	9938.4	11639.0	13802.1	16458.7	19112.5	21504.0
65°	3223.5	3325.0	3539.4	3937.0	4653.3	5770.1	7295.9	9453.3	12490.7	15764.9	19222.5
67.5°	2041.8	2061.6	2109.5	2165.9	2349.2	2735.6	3446.3	4791.5	7290.2	10705.5	14752.5
70°	1765.4	1765.4	1742.9	1734.4	1757.0	1810.6	1920.6	2233.6	3076.8	5082.0	8508.6
72.5°	1616.0	1599.1	1559.6	1528.5	1522.9	1522.9	1545.5	1593.4	1728.8	2070.0	3330.7
75°	1489.1	1441.1	1387.5	1350.9	1336.8	1322.7	1319.9	1328.3	1356.5	1410.1	1590.6
77.5°	1334.0	1271.9	1209.9	1173.2	1156.3	1136.5	1119.6	1099.9	1085.8	1102.7	1181.7
80°	1147.8	1077.3	1029.4	1006.8	989.9	961.7	925.0	891.2	860.2	854.5	902.5
82.5°	925.0	843.2	846.1	854.5	823.5	784.0	744.5	707.9	654.3	626.1	654.3
85°	747.4	705.1	685.3	738.9	693.8	634.5	572.5	507.6	423.0	355.3	386.4
87.5°	290.5	290.5	434.3	668.4	600.7	490.7	420.2	358.2	222.8	172.0	174.9
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°	6619.0	6619.0	6619.0	6619.0	6619.0	6619.0	6619.0	6619.0
2.5°	6630.3	6635.9	6633.1	6630.3	6630.3	6627.5	6630.3	6630.3
5°	6681.1	6695.2	6695.2	6700.8	6700.8	6703.6	6706.4	6703.6
7.5°	6757.2	6782.6	6799.5	6819.2	6822.1	6824.9	6830.5	6824.9
10°	6833.4	6884.1	6920.8	6957.4	6974.4	6980.0	6985.6	6985.6
12.5°	6929.2	6999.7	7064.6	7129.5	7160.5	7177.4	7177.4	7188.7
15°	7087.2	7157.7	7233.8	7321.2	7374.8	7403.0	7411.5	7411.5
17.5°	7310.0	7372.0	7436.9	7521.5	7589.2	7625.8	7634.3	7631.5
20°	7569.4	7628.6	7665.3	7718.9	7778.1	7820.4	7831.7	7831.7
22.5°	7865.5	7899.4	7905.0	7921.9	7969.9	8026.3	8051.7	8057.3
25°	8192.7	8201.1	8178.6	8178.6	8209.6	8263.2	8288.6	8291.4
27.5°	8615.7	8573.4	8517.0	8497.3	8517.0	8579.1	8610.1	8621.4
30°	9143.1	9041.6	8911.8	8841.3	8830.1	8911.8	8968.2	8976.7
32.5°	9746.6	9600.0	9427.9	9284.1	9247.4	9298.2	9365.9	9363.1
35°	10463.0	10288.1	10079.4	9896.1	9811.5	9862.2	9958.1	9969.4
37.5°	11289.3	11060.8	10821.1	10589.9	10457.3	10471.4	10572.9	10606.8
40°	12211.5	11915.4	11613.6	11303.4	11114.4	11077.8	11201.8	11221.6
42.5°	13198.5	12817.8	12437.1	12053.5	11811.0	11754.6	11898.4	11890.0
45°	14250.5	13765.4	13319.8	12896.8	12609.1	12524.5	12643.0	12643.0
47.5°	15381.4	14783.5	14253.3	13773.9	13460.8	13339.6	13452.4	13460.8
50°	16580.0	15945.4	15322.2	14789.1	14414.1	14258.9	14405.6	14428.2
52.5°	17772.9	17155.3	16526.4	15917.2	15463.2	15274.2	15443.4	15516.8
55°	18982.8	18376.4	17775.7	17180.7	16642.0	16419.2	16599.7	16692.8
57.5°	20260.3	19699.1	19126.6	18525.9	18007.0	17660.1	17851.9	17976.0
60°	21757.9	21278.4	20683.4	20020.6	19496.1	19143.5	19253.5	19363.5
62.5°	22942.3	23128.5	22623.7	21856.6	21182.5	20731.3	20838.5	20954.1
65°	22369.8	24279.1	24727.5	23952.0	23018.5	22316.3	22271.1	22330.4
67.5°	18697.9	22406.5	25111.1	25850.0	25068.8	24093.0	23912.5	23999.9
70°	12507.6	17127.1	21898.9	25452.3	26397.1	26019.2	25841.5	25895.1
72.5°	6007.0	9975.1	14856.8	19580.7	22457.3	23777.1	24200.2	24406.0
75°	2196.9	3959.6	7160.5	10790.1	13026.5	15079.6	16419.2	16966.3
77.5°	1325.5	1599.1	2287.2	3443.5	3900.3	4365.7	4185.2	4275.4
80°	981.4	1108.3	1255.0	1410.1	1460.9	1460.9	1404.5	1359.3
82.5°	688.1	769.9	840.4	925.0	947.6	905.3	744.5	592.2
85°	442.8	479.4	510.5	564.0	549.9	524.6	352.5	313.0
87.5°	203.1	231.3	242.5	267.9	256.6	245.4	174.9	146.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)