

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: P317739

Luminaire Tested: **GAN-SA5D-730-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36109 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

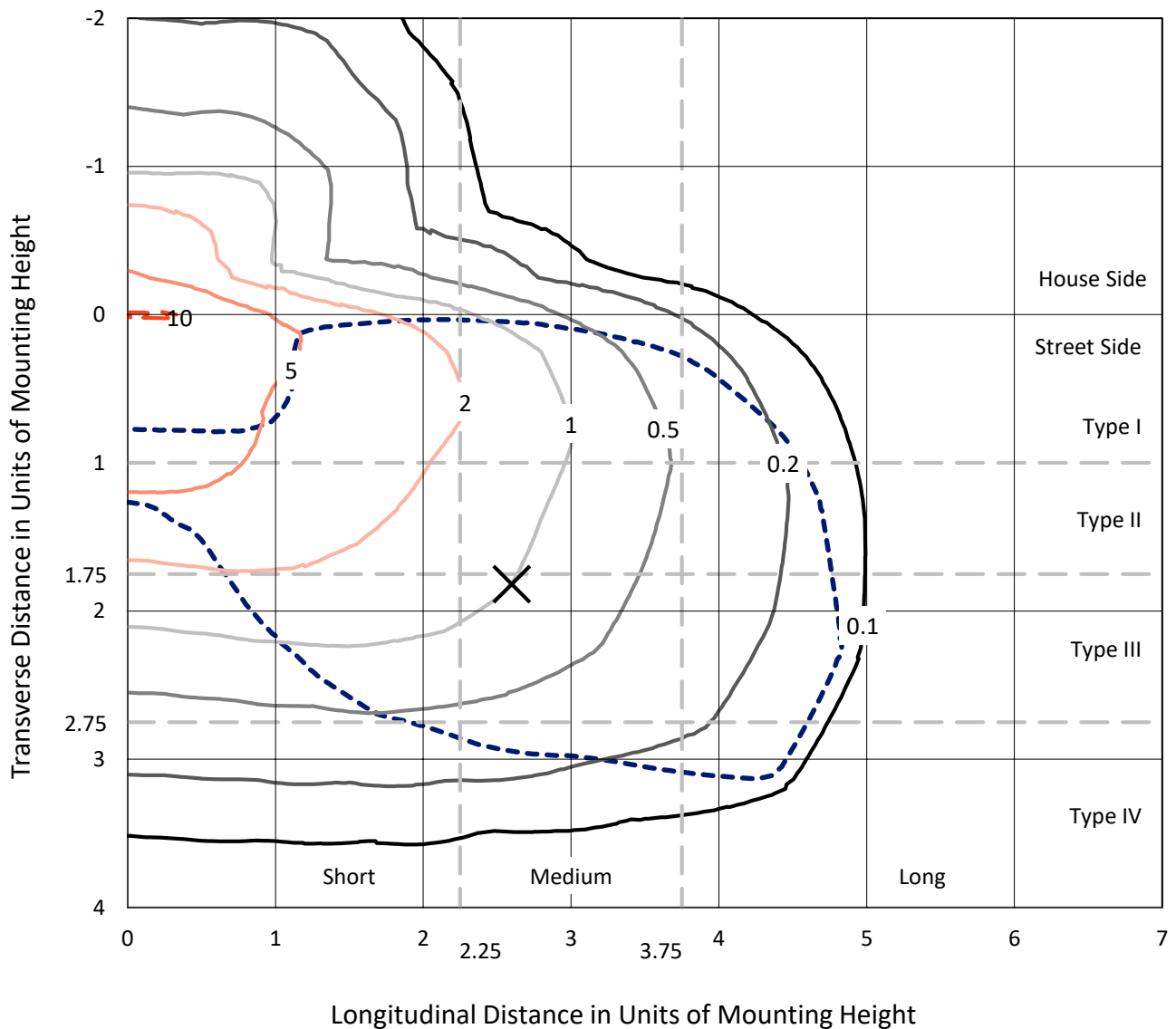
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

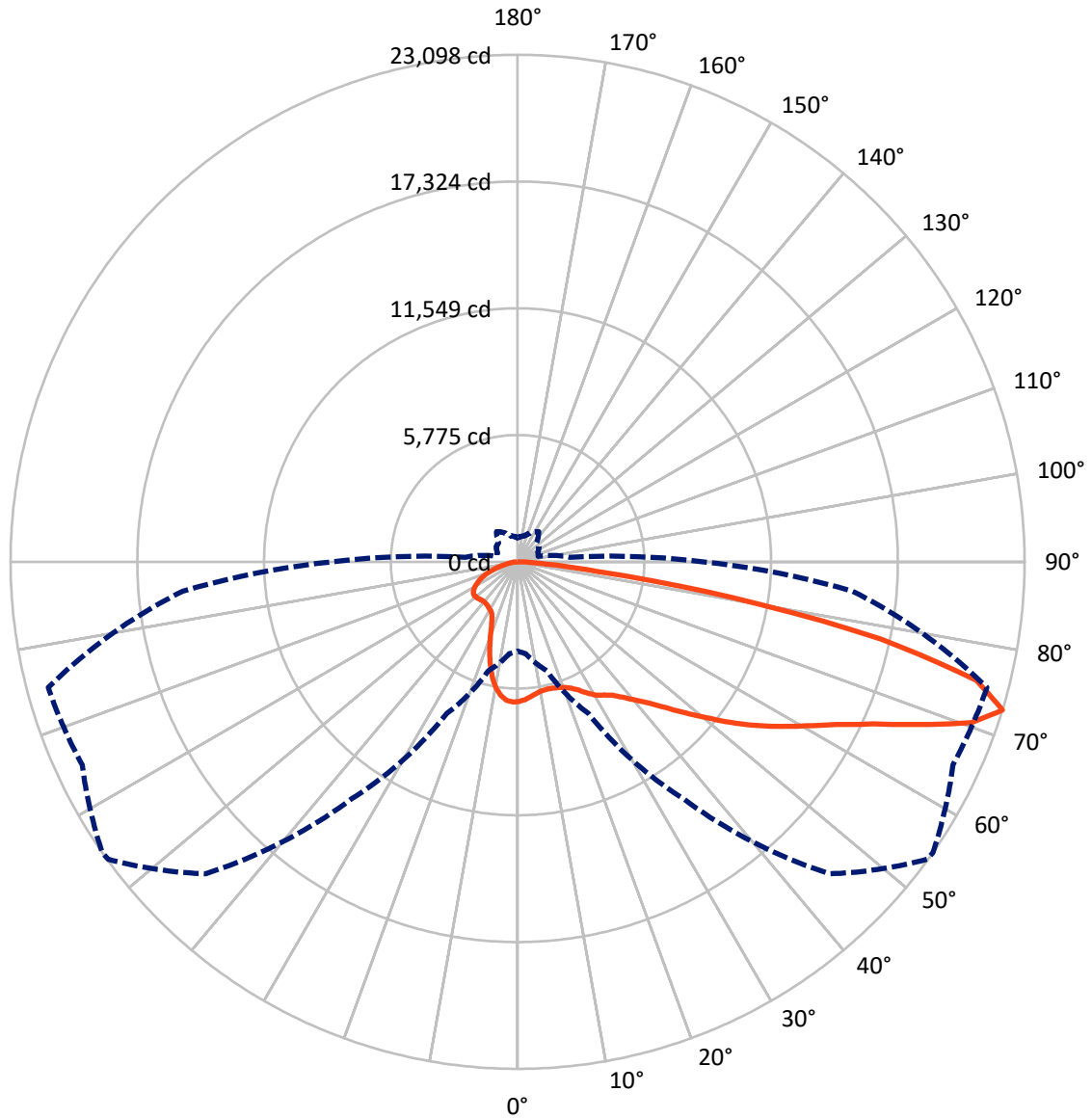
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6711.5	0.0	6711.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	29397.5	0.0	29397.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	36109.0	0.0	36109.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.3	1.6
10°-20°	1534.3	4.2
20°-30°	2529.7	7.0
30°-40°	3742.1	10.4
40°-50°	5223.2	14.5
50°-60°	6800.8	18.8
60°-70°	8358.0	23.1
70°-80°	6551.6	18.1
80°-90°	792.8	2.2
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°	36109.0	100.0
0°-180°	36109.0	100.0

Coefficient of Utilization

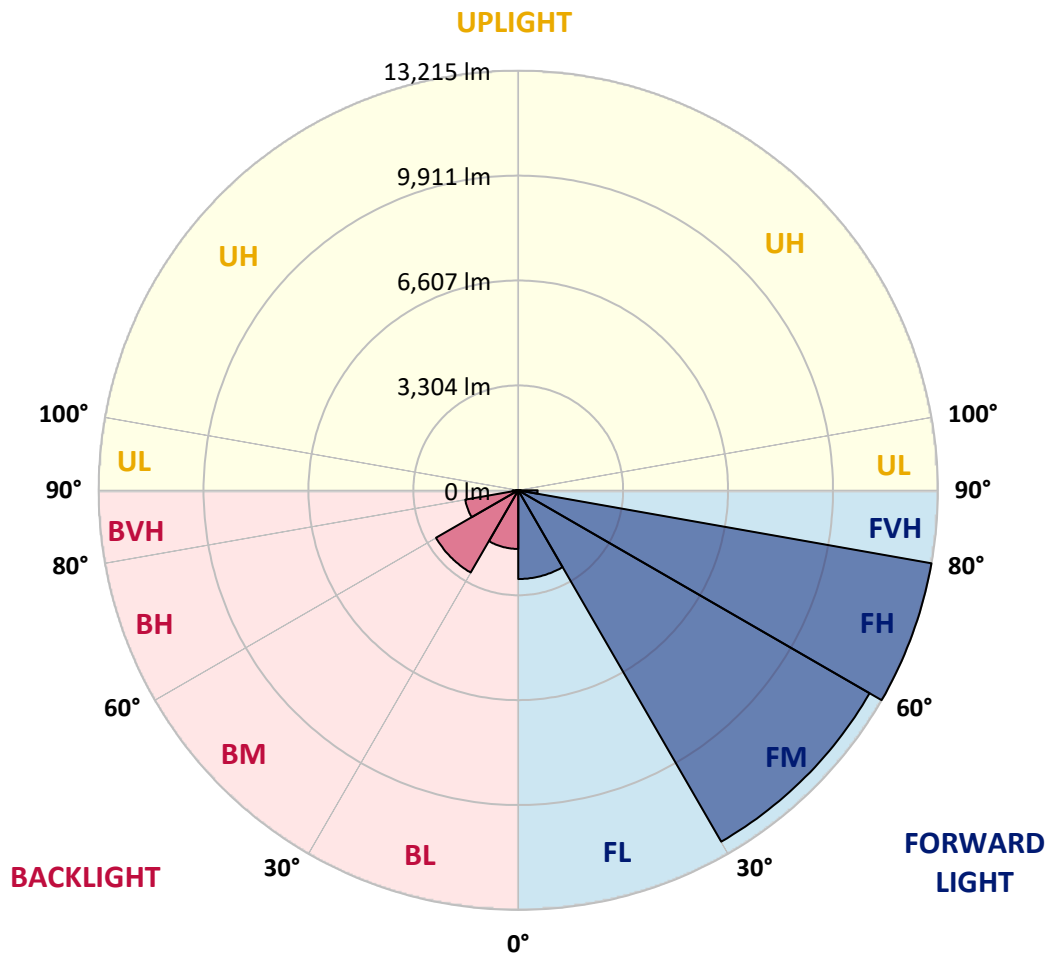


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2793.8	7.7			
FM (30°-60°)	12776.1	35.4			
FH (60°-80°)	13214.7	36.6			G5
FVH (80°-90°)	613.0	1.7			G4/750
BL (0°-30°)	1846.6	5.1	B3/2500		
BM (30°-60°)	2990.1	8.3	B3/5000		
BH (60°-80°)	1695.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	179.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6368.9	6368.9	6368.9	6368.9	6368.9	6368.9	6368.9	6368.9	6368.9	6368.9	6368.9
2.5°	6161.5	6146.9	6165.2	6190.8	6218.8	6256.6	6278.6	6288.4	6326.2	6340.8	6372.5
5°	5876.1	5868.8	5899.3	5943.2	6005.4	6093.2	6164.0	6177.4	6277.4	6348.1	6412.8
7.5°	5668.8	5668.8	5704.2	5756.6	5826.1	5944.4	6044.4	6062.7	6232.3	6384.7	6504.2
10°	5504.1	5510.2	5551.7	5613.9	5695.6	5821.2	5954.2	5974.9	6220.1	6470.1	6660.3
12.5°	5394.4	5409.0	5446.8	5502.9	5604.1	5756.6	5924.9	5953.0	6245.7	6592.0	6848.2
15°	5463.9	5488.3	5491.9	5515.1	5571.2	5737.1	5942.0	5971.3	6300.6	6716.4	7061.6
17.5°	5768.8	5777.3	5739.5	5690.7	5663.9	5770.0	5993.2	6023.7	6366.4	6839.6	7266.5
20°	6232.3	6227.4	6145.7	6013.9	5877.3	5894.4	6077.4	6109.1	6455.4	6948.2	7471.4
22.5°	6817.7	6800.6	6675.0	6432.3	6199.3	6101.8	6224.9	6251.8	6589.6	7103.1	7690.9
25°	7527.5	7489.7	7323.8	6998.2	6655.5	6404.2	6446.9	6472.5	6784.7	7276.2	7892.2
27.5°	8276.3	8238.5	8027.5	7633.6	7177.5	6786.0	6753.0	6775.0	7006.7	7404.3	8040.9
30°	9059.3	9019.1	8826.4	8384.9	7731.2	7181.1	7038.4	7047.0	7162.8	7473.8	8162.9
32.5°	9846.0	9808.2	9592.3	9080.1	8332.4	7605.5	7244.5	7233.6	7256.7	7545.8	8300.7
35°	10643.6	10658.3	10405.8	9838.7	8998.3	8077.5	7488.5	7465.3	7414.1	7693.4	8495.9
37.5°	11497.3	11487.6	11160.7	10568.0	9694.8	8589.8	7838.5	7834.8	7658.0	7972.6	8802.0
40°	12068.1	12074.2	11875.4	11314.4	10398.5	9156.9	8287.3	8278.8	8047.0	8391.0	9203.2
42.5°	12291.3	12331.6	12382.8	12026.7	11135.1	9814.3	8822.7	8810.5	8589.8	8991.0	9675.2
45°	12307.2	12387.7	12704.8	12659.6	11881.5	10566.8	9506.9	9472.8	9314.2	9788.7	10238.7
47.5°	12170.6	12253.5	12780.4	13036.5	12548.7	11360.8	10307.0	10280.2	10143.6	10786.3	10848.5
50°	11871.8	11951.0	12624.3	13220.7	13097.5	12124.2	11229.0	11158.3	11085.1	11938.9	11546.1
52.5°	11312.0	11464.4	12415.7	13264.6	13425.6	12802.3	12198.6	12152.3	12192.5	13154.8	12245.0
55°	9986.2	10157.0	11877.9	13228.0	13668.3	13371.9	13168.2	13165.8	13374.3	14430.5	12995.0
57.5°	9243.5	9364.2	10782.7	13165.8	13956.1	13937.8	14128.1	14151.2	14557.4	15819.7	13780.5
60°	8823.9	8950.8	10227.7	12935.3	14402.5	14669.6	15107.4	15153.8	15759.9	17357.6	14725.7
62.5°	8442.2	8581.2	9883.8	12465.7	14928.1	15716.0	16280.7	16322.2	17033.2	18938.2	15639.2
65°	7789.7	7947.0	9380.1	12157.2	15406.2	17080.8	17772.3	17800.3	18495.5	20594.5	16338.0
67.5°	6867.7	7011.6	8430.0	11475.4	15759.9	18738.2	19755.4	19771.2	19945.6	21764.1	16695.4
70°	5790.8	5845.6	7076.2	10068.0	15341.6	20288.4	21928.8	21932.4	21267.7	22512.9	16636.8
72.5°	4068.6	4197.9	5137.0	7621.4	13184.1	20099.3	23056.9	23098.4	21882.4	22134.9	15307.4
75°	2495.3	2631.9	3222.2	4618.7	8364.1	15807.5	21303.1	21590.9	20729.9	19735.9	12504.8
77.5°	1668.4	1719.7	2102.6	2692.9	3789.4	9094.7	16378.3	16919.8	17221.0	14392.7	7997.0
80°	930.6	1028.1	1394.0	1673.3	1685.5	3613.7	9820.4	9947.2	9581.3	5731.0	2467.3
82.5°	492.7	546.4	930.6	983.0	919.6	1209.9	3660.1	3663.7	3061.2	1536.7	733.0
85°	381.7	426.9	637.9	600.1	469.6	536.6	1207.4	1273.3	1041.6	629.3	239.0
87.5°	190.3	236.6	433.0	380.5	184.2	153.7	431.7	461.0	411.0	246.4	86.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6368.9	6368.9	6368.9	6368.9	6368.9	6368.9	6368.9	6368.9	6368.9	6368.9	6368.9
2.5°	6384.7	6395.7	6409.1	6394.5	6389.6	6370.1	6337.1	6329.8	6312.7	6314.0	6323.7
5°	6440.8	6459.1	6451.8	6395.7	6328.6	6234.7	6137.1	6054.2	5999.3	5995.6	5992.0
7.5°	6548.1	6560.3	6503.0	6343.2	6155.4	5938.3	5733.4	5554.1	5445.6	5418.8	5412.7
10°	6716.4	6714.0	6556.7	6234.7	5860.3	5472.4	5143.1	4894.3	4749.2	4706.5	4695.5
12.5°	6904.3	6876.2	6575.0	6037.1	5443.2	4905.3	4488.2	4211.3	4060.1	4011.3	3999.1
15°	7098.2	7028.7	6529.8	5742.0	4930.9	4294.3	3856.4	3600.3	3518.6	3491.8	3486.9
17.5°	7278.7	7144.5	6400.6	5341.9	4346.7	3685.7	3344.2	3241.7	3261.3	3296.6	3297.8
20°	7455.5	7222.6	6193.2	4837.0	3730.8	3184.4	3068.6	3144.2	3236.9	3308.8	3318.6
22.5°	7629.9	7277.5	5926.1	4254.0	3179.5	2902.7	2984.4	3122.2	3228.3	3306.4	3319.8
25°	7776.3	7290.9	5557.8	3632.0	2796.6	2796.6	2944.2	3074.7	3179.5	3256.4	3269.8
27.5°	7830.0	7200.6	5038.2	3056.4	2603.9	2747.8	2888.1	2996.6	3085.6	3167.4	3182.0
30°	7850.7	7033.5	4438.2	2594.1	2524.6	2695.4	2812.4	2905.1	2989.3	3066.1	3079.5
32.5°	7854.3	6832.3	3801.6	2331.9	2469.7	2640.5	2718.5	2800.2	2890.5	2921.0	2925.9
35°	7877.5	6594.5	3130.8	2197.8	2418.5	2589.3	2651.5	2710.0	2563.6	2574.6	2584.4
37.5°	7944.6	6359.1	2569.7	2122.1	2385.6	2562.4	2636.8	2424.6	2310.0	2283.1	2279.5
40°	8070.2	6107.9	2153.8	2061.2	2373.4	2575.8	2542.9	2263.6	2066.0	1918.5	1896.5
42.5°	8244.6	5837.1	1888.0	2020.9	2381.9	2640.5	2412.4	2108.7	1780.6	1685.5	1673.3
45°	8441.0	5552.9	1744.1	1992.9	2411.2	2690.5	2385.6	1902.6	1647.7	1575.7	1569.6
47.5°	8631.2	5205.3	1669.7	1980.7	2451.4	2650.2	2272.2	1839.2	1584.3	1546.5	1550.1
50°	8849.6	4891.9	1624.5	1967.2	2486.8	2624.6	2144.1	1806.3	1559.9	1606.2	1655.0
52.5°	9033.7	4567.5	1584.3	1940.4	2500.2	2579.5	2111.2	1812.4	1559.9	1648.9	1695.3
55°	9252.0	4322.3	1537.9	1884.3	2474.6	2451.4	2088.0	1848.9	1578.2	1522.1	1527.0
57.5°	9533.8	4241.8	1486.7	1796.5	2389.2	2264.8	2077.0	1884.3	1567.2	1531.8	1544.0
60°	9924.0	4327.2	1466.0	1681.9	2256.3	2118.5	2078.2	1866.0	1490.4	1429.4	1430.6
62.5°	10296.0	4422.3	1464.8	1609.9	2092.9	1988.0	2050.2	1806.3	1451.3	1416.0	1429.4
65°	10418.0	4326.0	1406.2	1529.4	1908.7	1831.9	1999.0	1742.8	1422.1	1368.4	1366.0
67.5°	10254.6	4027.2	1287.9	1398.9	1697.7	1650.1	1931.9	1667.2	1375.7	1331.8	1324.5
70°	9769.1	3360.1	1141.6	1226.9	1457.4	1445.2	1825.8	1579.4	1313.5	1275.7	1244.0
72.5°	8462.9	2394.1	962.3	1020.8	1186.7	1225.7	1679.4	1464.8	1225.7	1144.0	1095.2
75°	6950.6	1772.1	790.3	802.5	901.3	1007.4	1478.2	1330.6	1122.0	983.0	945.2
77.5°	4256.5	1084.2	629.3	634.2	646.4	803.7	1217.2	1180.6	990.3	819.6	792.8
80°	1378.2	591.5	454.9	478.1	441.5	589.1	941.5	1005.0	850.1	685.4	656.2
82.5°	524.4	345.2	307.3	323.2	306.1	395.2	686.6	804.9	696.4	563.5	458.6
85°	253.7	195.1	181.7	203.7	189.0	202.5	439.1	592.7	528.1	367.1	341.5
87.5°	90.3	86.6	69.5	93.9	80.5	72.0	134.2	298.8	348.8	252.5	225.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)