

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: P654525

Luminaire Tested: **GLAN-SA8B-840-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P654525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8B-840-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39020.7 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

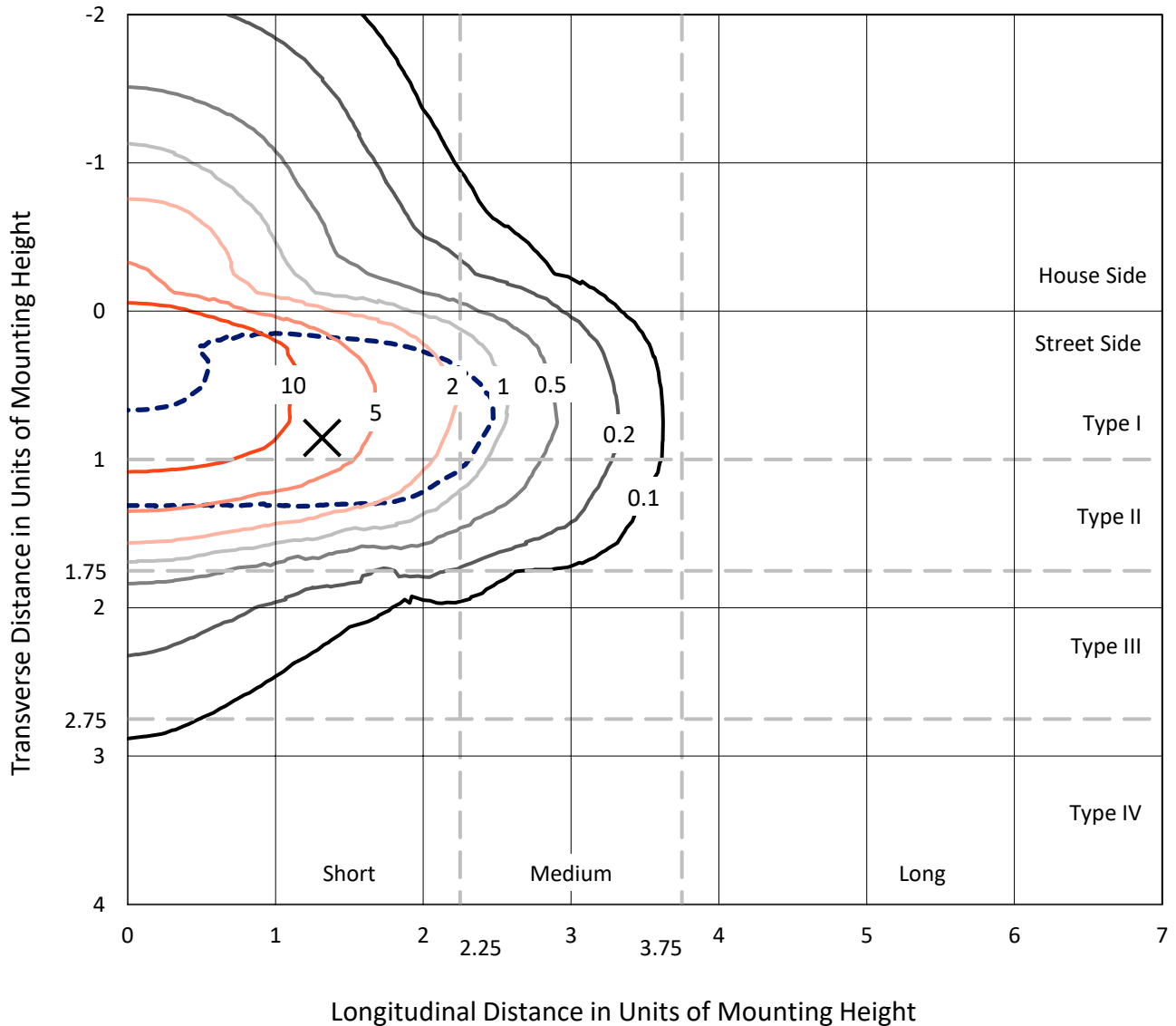
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

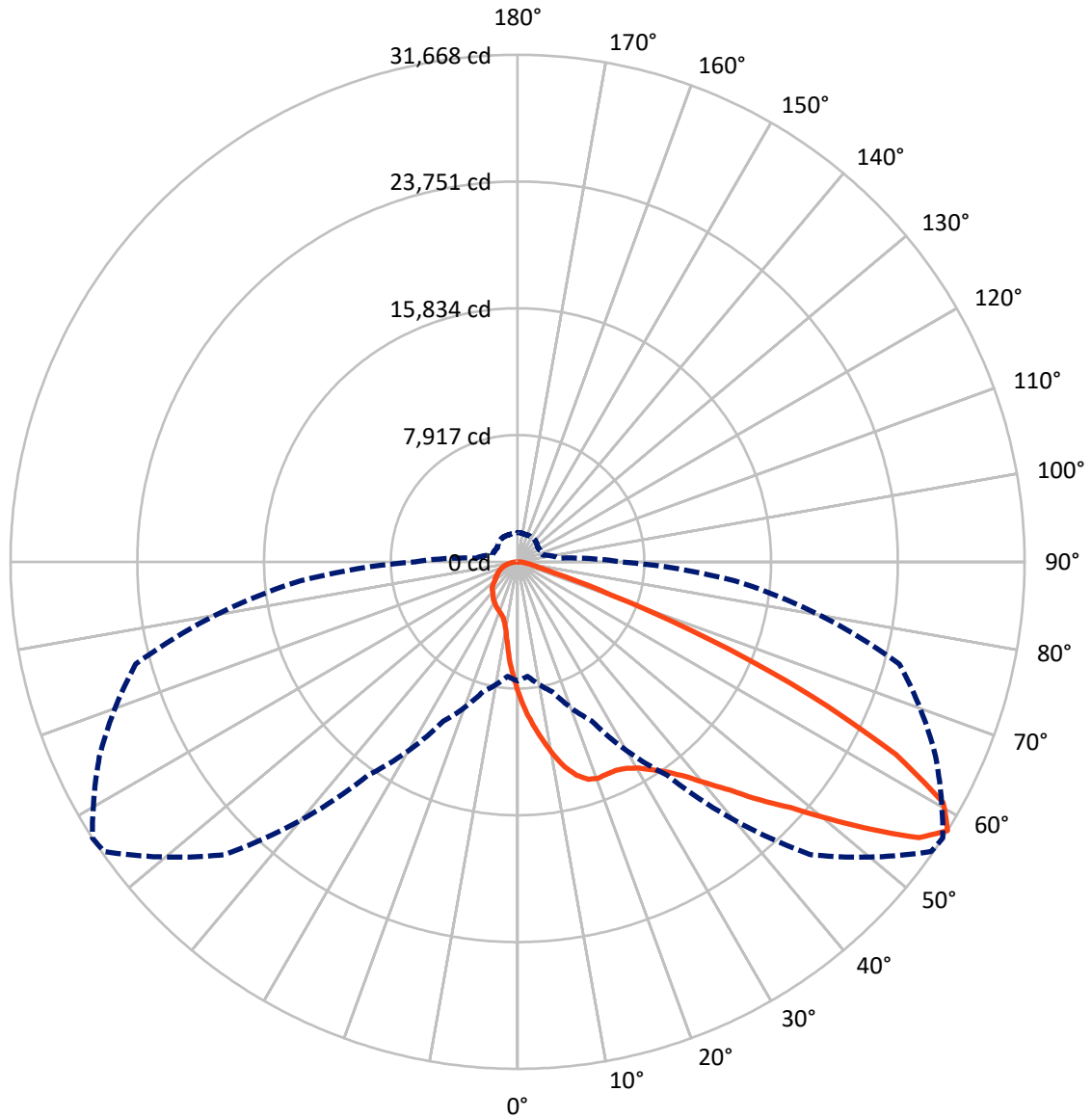
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5933.9	0.0	5933.9
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	33086.8	0.0	33086.8
	% Fixture	84.8	0.0	84.8
Total	Lumens	39020.7	0.0	39020.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	787.9	2.0
10°-20°	2322.0	6.0
20°-30°	3855.6	9.9
30°-40°	5807.7	14.9
40°-50°	8719.7	22.3
50°-60°	9773.7	25.0
60°-70°	5720.1	14.7
70°-80°	1692.0	4.3
80°-90°	342.0	0.9
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°	39020.7	100.0
0°-180°	39020.7	100.0

Coefficient of Utilization



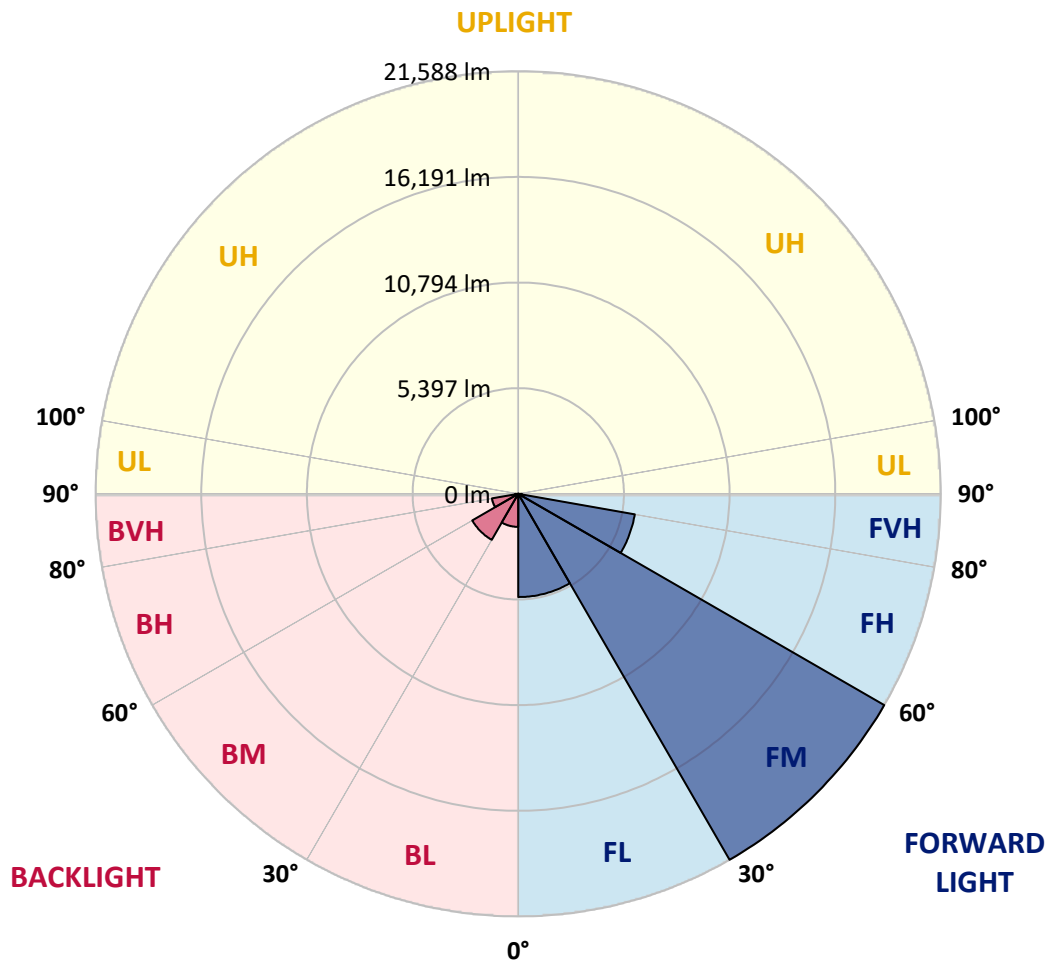
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5274.7	13.5			
FM (30°-60°)	21588.0	55.3			
FH (60°-80°)	6046.6	15.5			G3/7500
FVH (80°-90°)	177.4	0.5			G2/225
BL (0°-30°)	1690.8	4.3	B3/2500		
BM (30°-60°)	2713.2	7.0	B3/5000		
BH (60°-80°)	1365.4	3.5	B3/2500		G3/2500
BVH (80°-90°)	164.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	8197.8	8197.8	8197.8	8197.8	8197.8	8197.8	8197.8	8197.8	8197.8	8197.8	8197.8
2.5°	10186.4	10075.3	9987.7	9910.8	9810.4	9539.2	9267.9	9263.6	9047.9	8714.7	8373.0
5°	11846.0	11696.5	11715.7	11476.5	11237.3	10844.3	10269.7	10239.8	9780.6	9156.9	8522.4
7.5°	12926.8	12928.9	12869.2	12732.4	12474.0	12027.6	11376.1	11228.7	10590.0	9643.8	8693.3
10°	12871.3	12928.9	13029.4	13146.8	13225.8	13005.8	12412.1	12232.6	11401.8	10233.4	8883.5
12.5°	12132.3	12221.9	12365.1	12659.8	13136.2	13499.2	13296.4	13151.1	12341.6	10820.7	9092.8
15°	11670.9	11724.3	11803.3	12001.9	12514.6	13383.9	13909.4	13832.4	13228.0	11485.0	9327.7
17.5°	11529.9	11583.3	11608.9	11730.7	12095.9	12986.6	14150.8	14287.4	14014.0	12095.9	9564.9
20°	11670.9	11696.5	11696.5	11769.1	12055.3	12753.8	14140.1	14415.6	14659.1	12828.5	9787.0
22.5°	12040.4	12051.1	12036.1	12061.8	12275.3	12817.8	14039.7	14381.4	15180.2	13450.1	9960.0
25°	12640.6	12657.7	12559.4	12499.6	12655.5	13099.8	14095.2	14409.2	15588.2	14043.9	10075.3
27.5°	13321.9	13343.3	13223.7	13084.9	13157.5	13448.0	14313.1	14595.0	15893.6	14629.2	10147.9
30°	14157.1	14165.6	13964.9	13798.3	13751.3	13967.0	14684.7	14947.4	16273.9	15319.1	10256.8
32.5°	15011.5	15075.6	14817.2	14582.2	14503.1	14569.4	15233.6	15487.9	16726.6	16060.2	10432.0
35°	16173.4	16184.1	15874.5	15588.2	15327.6	15413.1	15936.4	16120.0	17352.5	16916.8	10679.8
37.5°	17623.8	17722.1	17294.8	16760.9	16440.5	16316.6	16786.5	16987.3	18230.4	17967.7	11053.6
40°	19234.3	19270.6	18905.3	18572.1	17986.9	17628.0	17952.7	18170.6	19313.3	19221.5	11487.2
42.5°	20246.7	20325.8	20353.5	20319.4	19879.4	19277.0	19400.9	19503.5	20594.9	20398.4	11931.4
45°	20588.5	20706.0	21103.3	21944.8	21991.8	21398.1	21109.7	21207.9	21991.8	21586.0	12356.5
47.5°	20022.4	20223.3	20955.9	22681.8	23974.0	24018.9	23149.5	22933.8	23264.8	22570.7	12664.1
50°	18559.4	18602.1	19723.5	22222.5	24903.1	26524.3	25625.1	25223.5	24473.8	23299.1	12875.5
52.5°	16295.2	16344.3	17284.1	20088.7	24330.7	28275.8	28521.4	27803.8	25702.0	23865.1	13014.4
55°	12095.9	12380.0	13413.8	16124.3	21618.0	28111.4	30824.0	30416.0	27186.5	24313.6	13232.3
57.5°	7437.4	7176.8	8402.9	10970.3	16258.9	25851.5	31535.3	31667.7	28820.5	24689.6	13597.5
60°	3421.8	3473.1	3979.3	5658.2	9910.8	20223.3	29702.6	30539.9	29724.0	24676.7	13689.4
62.5°	2358.1	2311.1	2183.0	2484.1	4519.7	12790.1	25089.0	26507.2	27912.7	23909.9	13324.1
65°	2108.2	2061.2	1813.4	1730.1	2076.2	5574.8	18238.9	20028.8	23501.9	21974.7	12414.2
67.5°	1969.4	1905.3	1648.9	1486.6	1482.3	2219.2	10754.5	12909.8	17431.6	18578.5	10756.6
70°	1824.1	1772.8	1518.7	1339.2	1262.3	1394.8	4726.8	6187.9	11318.4	13388.2	8379.4
72.5°	1678.9	1619.1	1390.5	1198.3	1097.8	1044.5	1811.3	2356.0	6395.0	8026.9	5137.0
75°	1467.4	1437.5	1243.2	1085.1	976.1	843.7	1149.1	1311.5	3058.7	3686.7	2578.1
77.5°	1283.7	1251.7	1104.3	948.4	869.3	685.7	815.9	890.7	1290.1	1495.1	1164.1
80°	939.8	971.9	931.2	837.3	775.3	538.2	548.9	610.9	766.8	848.0	711.2
82.5°	595.9	655.7	717.7	645.0	587.4	425.0	380.2	403.7	523.3	555.3	316.1
85°	249.9	254.2	416.5	393.0	335.3	252.0	228.6	241.4	279.8	292.7	147.3
87.5°	96.1	94.0	147.3	136.7	104.6	72.7	72.7	81.2	111.1	102.5	47.0
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°	8197.8	8197.8	8197.8	8197.8	8197.8	8197.8	8197.8	8197.8	8197.8	8197.8	8197.8
2.5°	8225.6	8073.9	7772.8	7398.9	7125.5	6818.0	6546.7	6352.3	6279.7	6245.5	6181.4
5°	8219.2	7920.1	7296.4	6642.8	6117.3	5579.1	5124.1	4829.4	4803.8	4607.3	4588.1
7.5°	8221.3	7764.2	6771.0	5809.8	5008.8	4457.7	4081.8	3983.6	3866.1	3836.2	3851.1
10°	8227.7	7565.6	6207.1	4985.4	4210.0	3849.0	3708.1	3669.5	3673.8	3686.7	3688.8
12.5°	8236.2	7373.3	5621.8	4359.5	3761.5	3611.9	3597.0	3631.1	3667.4	3695.2	3701.6
15°	8246.9	7153.3	5051.6	3855.4	3537.2	3524.3	3573.5	3631.1	3682.4	3722.9	3729.4
17.5°	8234.1	6897.0	4573.1	3545.7	3413.3	3475.2	3556.3	3629.0	3676.0	3714.4	3718.7
20°	8204.2	6610.8	4111.7	3327.8	3336.3	3436.7	3524.3	3592.7	3644.0	3663.1	3678.1
22.5°	8088.9	6269.1	3710.2	3159.0	3244.5	3383.3	3488.0	3528.6	3470.9	3430.4	3441.0
25°	7892.4	5824.8	3336.3	3022.4	3161.2	3308.6	3415.4	3317.2	3270.1	3253.1	3261.6
27.5°	7646.7	5337.7	3054.4	2879.2	3054.4	3225.3	3195.4	3178.3	3156.9	3129.2	3135.6
30°	7381.9	4861.4	2815.2	2768.2	2939.0	3037.4	3050.1	3077.9	3054.4	3011.7	3028.8
32.5°	7136.2	4412.9	2633.7	2674.2	2857.9	2843.0	2939.0	2971.1	2862.2	2719.0	2725.5
35°	6926.9	3996.3	2496.9	2582.4	2719.0	2725.5	2821.6	2710.5	2593.1	2524.7	2529.0
37.5°	6768.9	3671.7	2407.2	2503.3	2541.8	2623.0	2571.7	2514.0	2499.0	2452.1	2454.2
40°	6674.8	3387.6	2349.6	2441.4	2435.0	2490.5	2326.0	2383.7	2405.1	2390.1	2392.3
42.5°	6580.9	3186.9	2289.7	2356.0	2353.8	2244.9	2208.6	2257.7	2313.3	2319.6	2315.4
45°	6506.1	3031.0	2227.8	2225.7	2268.3	2097.5	2086.9	2116.7	2195.8	2234.2	2232.1
47.5°	6422.8	2900.6	2133.8	2074.0	2086.9	2005.7	1988.5	2001.4	2097.5	2159.4	2176.5
50°	6318.2	2770.3	2016.4	1935.1	1881.7	1920.3	1924.5	1926.6	2022.8	2093.2	2108.2
52.5°	6234.8	2672.1	1881.7	1821.9	1757.9	1843.3	1875.3	1879.6	1937.3	1995.0	2005.7
55°	6284.0	2616.5	1749.4	1706.6	1648.9	1764.3	1826.2	1834.8	1847.6	1890.3	1896.7
57.5°	6431.4	2629.4	1642.6	1587.1	1544.3	1670.3	1775.0	1781.4	1772.8	1824.1	1832.6
60°	6476.2	2623.0	1563.5	1454.6	1428.9	1569.9	1700.2	1713.0	1710.9	1785.7	1800.6
62.5°	6288.2	2541.8	1484.4	1343.5	1326.4	1467.4	1595.5	1646.8	1657.5	1764.3	1783.5
65°	5846.1	2375.2	1379.8	1226.0	1226.0	1358.5	1495.1	1565.7	1595.5	1738.7	1760.0
67.5°	5263.0	2178.7	1273.0	1125.7	1121.4	1253.8	1388.4	1461.0	1508.0	1702.4	1715.1
70°	4368.1	1913.8	1140.6	1016.7	1016.7	1136.4	1258.1	1345.7	1414.0	1634.0	1634.0
72.5°	2992.4	1591.3	980.4	892.8	895.0	1006.0	1129.9	1228.2	1309.4	1497.3	1501.6
75°	1892.4	1243.2	805.3	760.4	768.9	873.6	1001.8	1104.3	1266.6	1480.2	1486.6
77.5°	1006.0	873.6	640.8	630.1	640.8	736.9	880.0	1021.0	1270.9	1283.7	1262.3
80°	651.4	619.4	506.2	484.8	489.1	593.8	783.9	969.8	1021.0	1033.8	986.8
82.5°	354.6	393.0	358.9	337.5	337.5	463.5	668.6	771.1	732.6	608.7	581.0
85°	151.6	183.7	185.9	162.3	155.9	286.2	448.6	420.8	390.9	373.8	369.5
87.5°	42.7	59.8	59.8	44.8	34.1	79.1	89.7	25.7	0.0	2.1	4.3
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)