

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: P190975

Luminaire Tested: **GAN-AF-07-LED-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190975
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44185.3 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

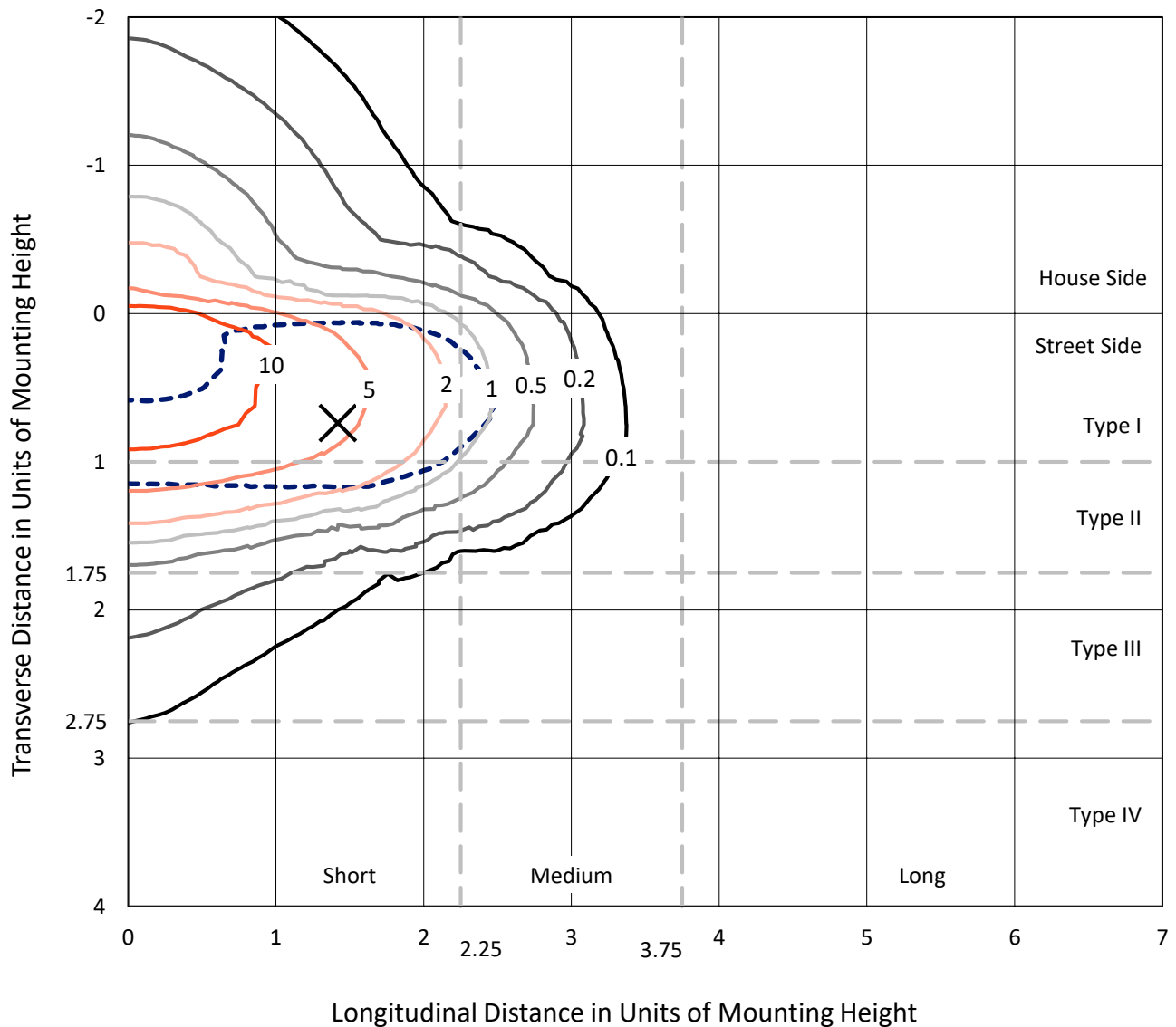
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

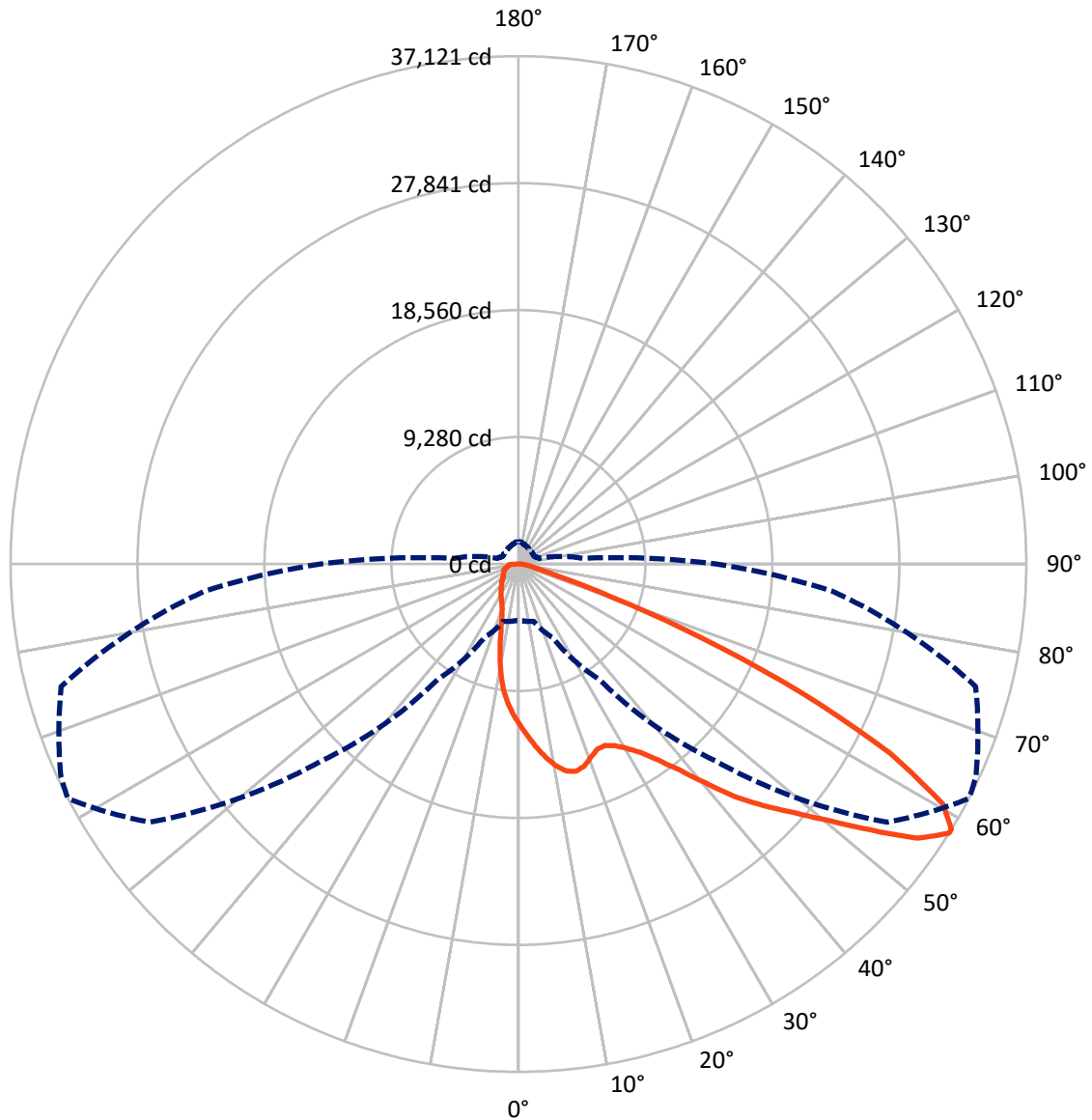


Based on 30 foot mounting height. Maximum calculated value = 15.9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6738.4	0.0	6738.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	37446.9	0.0	37446.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	44185.3	0.0	44185.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1049.7	2.4
10°-20°	2683.2	6.1
20°-30°	4337.5	9.8
30°-40°	6885.7	15.6
40°-50°	10075.2	22.8
50°-60°	10537.8	23.8
60°-70°	6225.7	14.1
70°-80°	1753.8	4.0
80°-90°	636.7	1.4
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°	44185.3	100.0
0°-180°	44185.3	100.0



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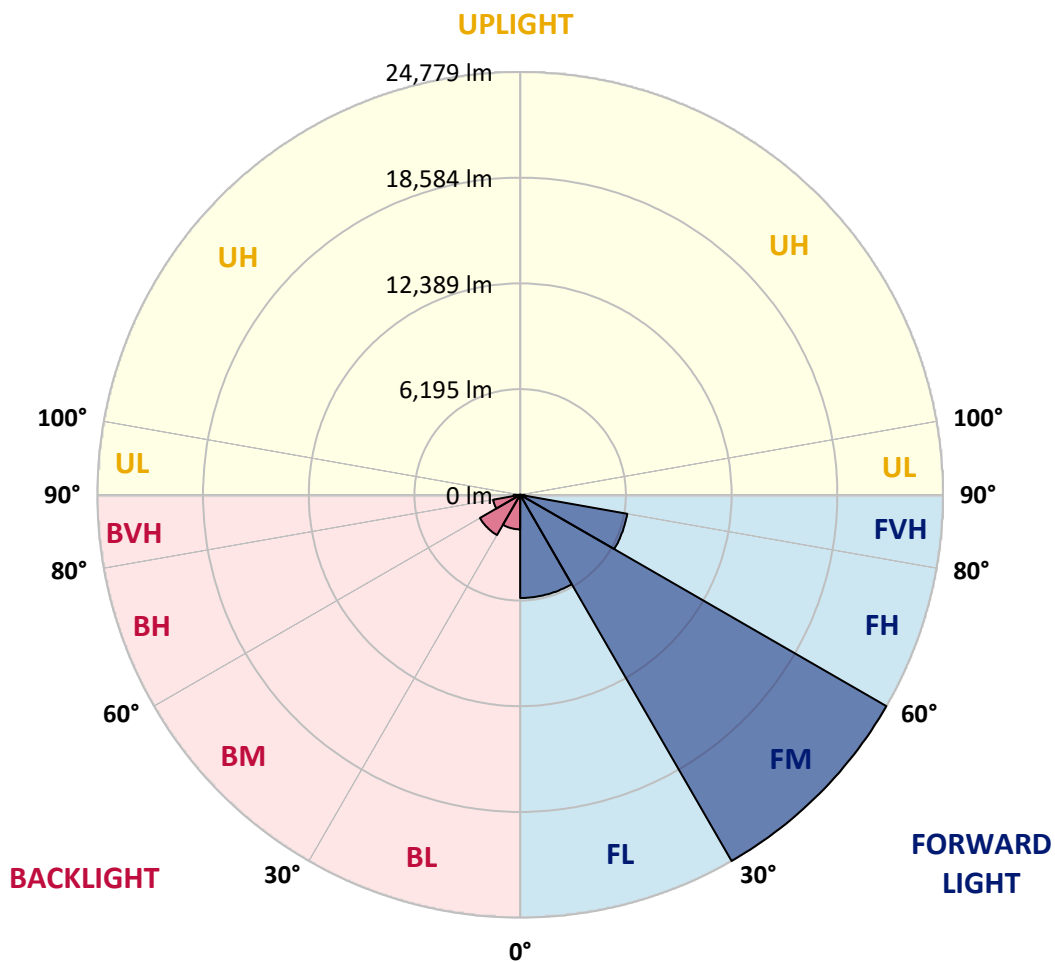
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6045.1	13.7			
FM (30°-60°)	24778.9	56.1			
FH (60°-80°)	6371.7	14.4			G3/7500
FVH (80°-90°)	251.2	0.6			G3/500
BL (0°-30°)	2025.2	4.6	B3/2500		
BM (30°-60°)	2719.8	6.2	B3/5000		
BH (60°-80°)	1607.8	3.6	B3/2500		G3/2500
BVH (80°-90°)	385.5	0.9			G3/500
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°	62.5°	65°	75°	85°
0°	11736.9	11736.9	11736.9	11736.9	11736.9	11736.9	11736.9	11736.9	11736.9	11736.9	11736.9
2.5°	13411.8	13303.7	13235.0	13174.7	13095.6	12927.0	12700.2	12556.7	12483.9	12236.3	11943.0
5°	14726.8	14631.2	14560.4	14479.3	14337.8	14073.6	13707.3	13416.0	13272.5	12777.3	12190.5
7.5°	14418.9	14458.4	14581.1	14795.4	14978.6	14943.2	14616.5	14246.2	14056.9	13368.1	12477.6
10°	12563.0	12631.6	12843.9	13345.3	14156.7	14989.0	15242.8	14986.9	14795.4	13952.8	12773.1
12.5°	12190.5	12188.5	12205.0	12338.2	12820.9	13992.3	15263.7	15521.6	15407.2	14510.5	13074.7
15°	12342.4	12346.6	12334.1	12390.3	12540.0	13004.1	14627.0	15727.7	15808.8	15072.3	13386.8
17.5°	12741.9	12731.4	12683.7	12683.7	12737.7	12918.7	13878.0	15536.2	15910.7	15569.5	13661.5
20°	13411.8	13364.0	13237.1	13120.6	13062.3	13160.1	13570.0	15095.1	15733.9	16004.4	13888.3
22.5°	14223.3	14185.9	13979.9	13730.1	13528.4	13526.3	13728.1	14710.1	15428.0	16414.3	14079.8
25°	15271.9	15211.6	14905.7	14506.3	14152.5	14017.3	14073.6	14691.4	15261.5	16859.5	14250.3
27.5°	16503.7	16393.4	16031.4	15455.0	14934.9	14662.4	14581.1	15030.6	15413.4	17410.8	14487.5
30°	17997.6	17870.6	17406.7	16655.6	15921.1	15473.8	15301.1	15631.9	15916.9	18082.9	14868.3
32.5°	19697.5	19514.4	18977.6	18149.5	17184.0	16501.6	16220.7	16426.7	16653.5	18892.3	15344.8
35°	22046.5	21828.0	21052.0	19909.7	18819.4	17881.1	17431.7	17581.5	17802.0	20099.0	16033.4
37.5°	23648.7	23550.9	23034.8	21961.2	20775.3	19695.4	19000.5	19087.9	19212.7	21607.5	16915.6
40°	23634.1	23673.6	23684.0	23694.4	22887.1	21853.1	21106.1	21014.6	20989.6	23263.7	17918.5
42.5°	22450.2	22612.5	23136.8	24200.0	24691.1	24216.6	23532.2	23267.9	23136.8	25215.3	18981.8
45°	20637.9	20725.3	21707.4	23783.9	25614.9	26557.4	26039.3	25207.0	24969.8	27008.9	19864.0
47.5°	19703.8	19799.4	20417.4	22681.2	25604.5	28448.7	28748.3	27162.8	26738.4	28569.4	20625.5
50°	17479.6	17679.2	18457.4	20762.8	24670.2	29318.4	31580.0	29493.2	28615.1	30088.3	21389.1
52.5°	13395.2	13703.1	14574.9	17608.6	22300.4	28887.7	33845.9	32318.7	31078.7	31661.2	22044.5
55°	8449.5	8678.4	9410.7	12436.0	17839.4	26646.8	34705.2	35375.2	34272.4	33151.0	22612.5
57.5°	4594.1	4696.1	4970.6	6866.1	11603.7	21692.8	33452.6	37114.6	36656.8	34416.0	23041.0
58°	4111.3	4180.0	4350.6	5950.6	10290.9	20338.3	32897.1	37120.8	36892.0	34601.2	23074.4
60°	3050.2	3014.8	2862.9	3395.6	5728.0	14050.6	29538.9	35635.2	36307.3	34828.0	22912.1
62.5°	2679.8	2594.6	2284.6	2249.2	2786.0	6472.9	22602.1	30525.2	32112.7	33533.8	21925.8
65°	2517.6	2426.0	2026.6	1897.6	2009.9	2738.1	13314.1	22893.3	24884.5	29609.7	19404.1
67.5°	2396.9	2278.3	1862.2	1685.3	1693.6	1810.2	5336.8	14418.9	16659.8	22481.4	15093.0
70°	2280.4	2151.4	1722.8	1518.9	1471.0	1431.5	2122.2	7217.7	9250.5	14200.4	9623.0
72.5°	2155.6	2028.6	1600.0	1387.8	1294.1	1163.1	1385.7	2952.4	4123.8	6718.4	4365.2
75°	1974.5	1860.1	1477.2	1271.3	1138.1	963.3	1046.6	1541.8	1849.7	2675.7	2103.5
77.5°	1751.9	1658.3	1340.0	1175.6	1009.1	782.4	805.2	1069.5	1186.0	1531.4	1250.5
80°	1258.7	1292.1	1192.2	1057.0	898.9	634.6	618.0	780.2	842.7	984.2	813.6
82.5°	884.2	903.0	986.2	863.5	742.8	499.4	455.6	549.3	586.8	647.1	439.1
85°	609.7	588.8	676.2	601.3	536.8	332.9	312.1	372.5	395.4	401.6	226.8
87.5°	366.2	366.2	391.2	322.5	289.2	172.7	168.6	212.3	226.8	216.4	124.8
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°	11736.9	11736.9	11736.9	11736.9	11736.9	11736.9	11736.9	11736.9	11736.9	11736.9	11736.9
2.5°	11768.1	11620.4	11306.3	11054.5	10736.2	10405.4	10220.1	10022.5	9887.2	9789.4	9945.5
5°	11857.6	11556.0	10906.8	10290.9	9610.5	8903.0	8366.3	7866.9	7519.5	7303.1	7507.0
7.5°	11999.1	11535.1	10501.0	9448.2	8226.9	7049.3	5996.4	5336.8	4951.9	4762.6	4881.2
10°	12161.4	11501.9	10024.6	8306.0	6558.2	5074.7	4288.2	4021.9	3934.5	3899.2	3915.8
12.5°	12296.6	11431.1	9439.9	6924.4	4924.9	4007.3	3780.5	3774.3	3793.0	3797.2	3803.4
15°	12392.3	11327.0	8572.2	5484.6	3938.7	3651.5	3639.0	3676.5	3711.9	3726.4	3734.8
17.5°	12456.9	11112.7	7592.2	4336.1	3528.8	3478.9	3508.0	3555.8	3593.3	3603.7	3612.0
20°	12450.6	10798.6	6425.1	3616.1	3306.2	3306.2	3356.1	3393.5	3395.6	3383.1	3389.3
22.5°	12386.1	10367.9	5293.2	3233.3	3108.4	3143.8	3193.8	3158.5	3012.8	2917.0	2923.3
25°	12277.9	9854.0	4323.6	2989.9	2925.4	2987.8	2973.2	2706.9	2498.9	2405.3	2405.3
27.5°	12182.2	9246.4	3578.7	2777.6	2742.3	2819.3	2561.3	2320.0	2232.5	2188.8	2174.3
30°	12113.6	8590.9	3081.4	2573.7	2569.6	2513.4	2222.2	2155.6	2141.0	2105.6	2093.2
32.5°	12130.2	7927.3	2763.1	2394.8	2409.4	2151.4	2059.8	2074.4	2062.0	2024.4	2007.8
35°	12267.5	7296.8	2555.0	2232.5	2188.8	1943.3	1964.2	1991.2	1987.0	1935.0	1918.3
37.5°	12513.0	6699.7	2417.7	2097.3	1910.1	1839.3	1872.6	1914.1	1903.8	1868.4	1855.9
40°	12771.0	6137.9	2305.3	1991.2	1745.7	1768.6	1797.6	1820.5	1831.0	1841.4	1833.0
42.5°	13022.8	5551.1	2168.0	1882.9	1677.0	1702.0	1714.5	1737.4	1793.5	1833.0	1831.0
45°	13172.5	4999.8	2026.6	1729.0	1622.9	1637.4	1629.2	1674.9	1743.6	1808.1	1810.2
47.5°	13339.1	4571.2	1914.1	1587.5	1570.8	1581.3	1556.3	1602.1	1664.5	1743.6	1751.9
50°	13540.9	4315.2	1824.7	1475.2	1500.2	1500.2	1493.9	1535.6	1622.9	1714.5	1731.1
52.5°	13769.7	4265.3	1749.9	1394.1	1429.4	1427.3	1433.6	1496.0	1591.7	1681.1	1695.7
55°	14048.5	4400.5	1668.6	1333.7	1360.7	1369.1	1389.9	1460.6	1541.8	1643.7	1649.9
57.5°	14373.1	4675.2	1604.2	1285.8	1298.3	1325.3	1358.7	1423.1	1510.6	1622.9	1629.2
58°	14427.2	4733.5	1593.8	1281.7	1285.8	1317.0	1354.5	1416.9	1504.4	1627.1	1633.3
60°	14429.3	4926.9	1570.8	1262.9	1238.0	1290.0	1331.6	1394.1	1493.9	1641.6	1656.2
62.5°	13917.5	4924.9	1554.3	1235.9	1188.1	1252.5	1300.4	1373.2	1483.5	1677.0	1706.2
65°	12255.1	4475.5	1475.2	1194.3	1148.5	1219.3	1273.4	1358.7	1512.6	1831.0	1849.7
67.5°	9585.6	3668.2	1327.5	1136.0	1096.5	1186.0	1256.7	1356.5	1543.8	1866.4	1878.9
70°	6337.7	2744.4	1165.1	1069.5	1042.4	1146.4	1265.1	1427.3	1508.4	1791.4	1758.1
72.5°	3289.5	1926.7	1034.1	986.2	980.0	1111.0	1385.7	1419.0	1473.0	1685.3	1643.7
75°	1726.9	1337.8	919.6	894.7	905.1	1102.7	1635.4	1381.6	1427.3	1612.5	1691.6
77.5°	1057.0	1079.8	821.8	811.4	832.3	1077.8	1633.3	1333.7	1360.7	1483.5	1570.8
80°	707.4	876.0	747.0	749.0	763.6	986.2	1466.8	1258.7	1279.6	1402.4	1491.9
82.5°	447.3	518.1	678.3	713.7	694.9	813.6	1246.3	1146.4	1175.6	1604.2	1695.7
85°	226.8	324.6	588.8	686.6	626.3	570.1	1011.2	1004.9	1019.5	1156.9	1208.8
87.5°	104.0	178.9	459.8	599.2	472.3	355.8	734.5	744.9	803.1	821.8	821.8
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)