

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: P268653

Luminaire Tested: **GAN-AF-07-LED-U-AFL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268653
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-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37527 lumens
Efficiency: N/A
Efficacy: 96.0 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

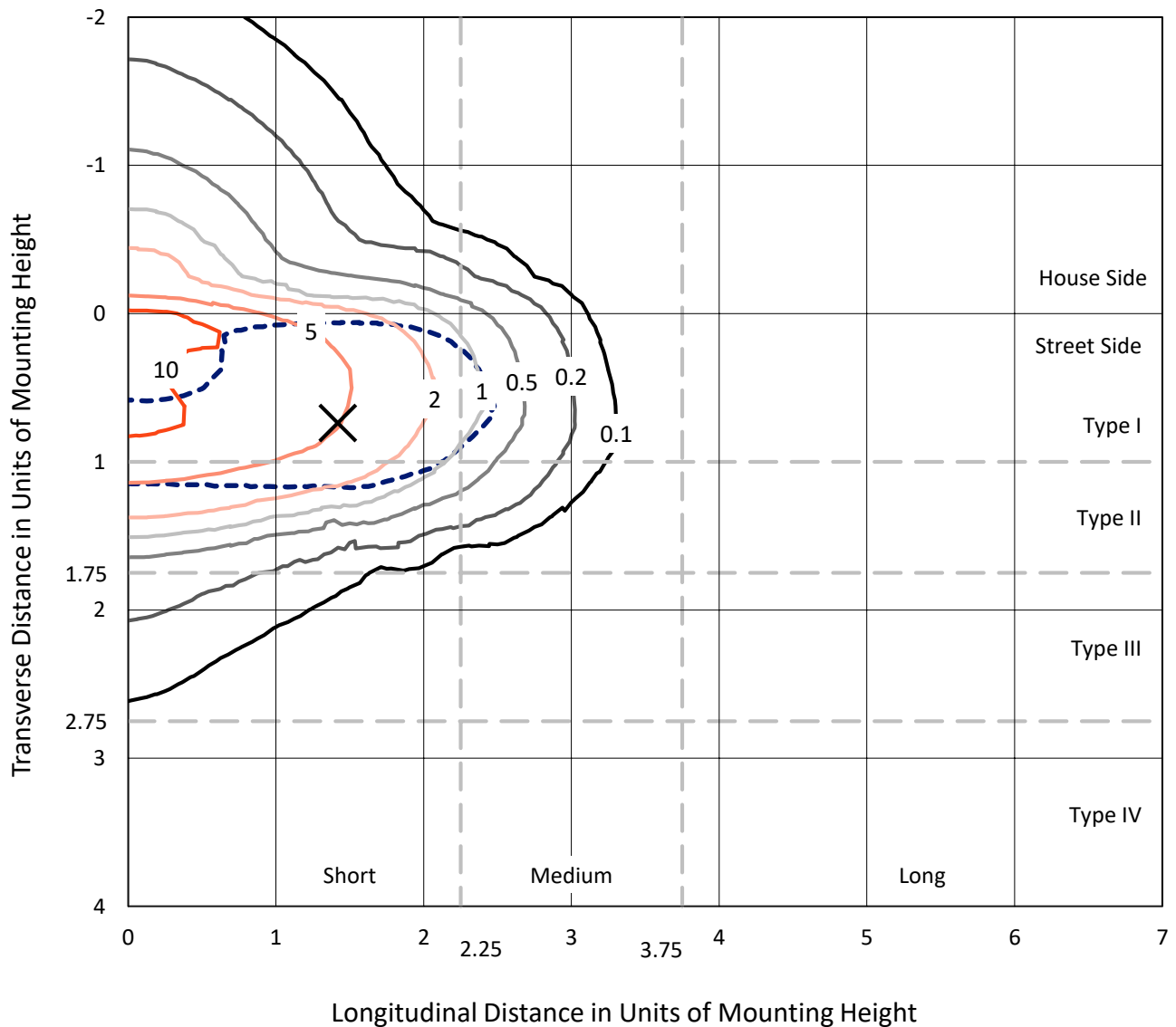


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Iso-Footcandle Lines of Horizontal Illumination

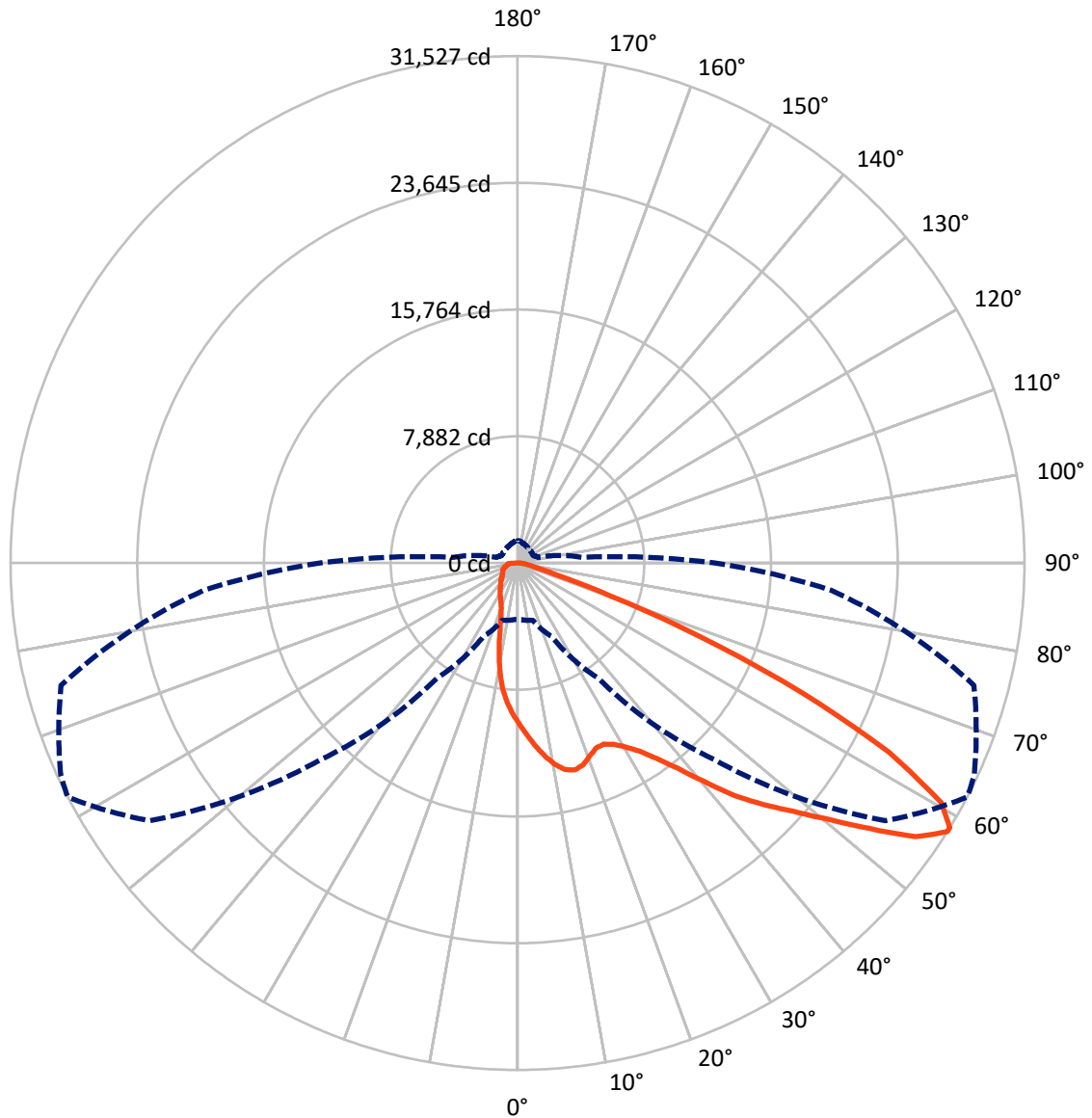
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.5 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	5723.1	0.0	5723.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	31804.0	0.0	31804.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	37527.0	0.0	37527.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	891.5	2.4
10°-20°	2278.9	6.1
20°-30°	3683.8	9.8
30°-40°	5848.1	15.6
40°-50°	8557.0	22.8
50°-60°	8949.9	23.8
60°-70°	5287.6	14.1
70°-80°	1489.6	4.0
80°-90°	540.8	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°	37527.0	100.0
0°-180°	37527.0	100.0



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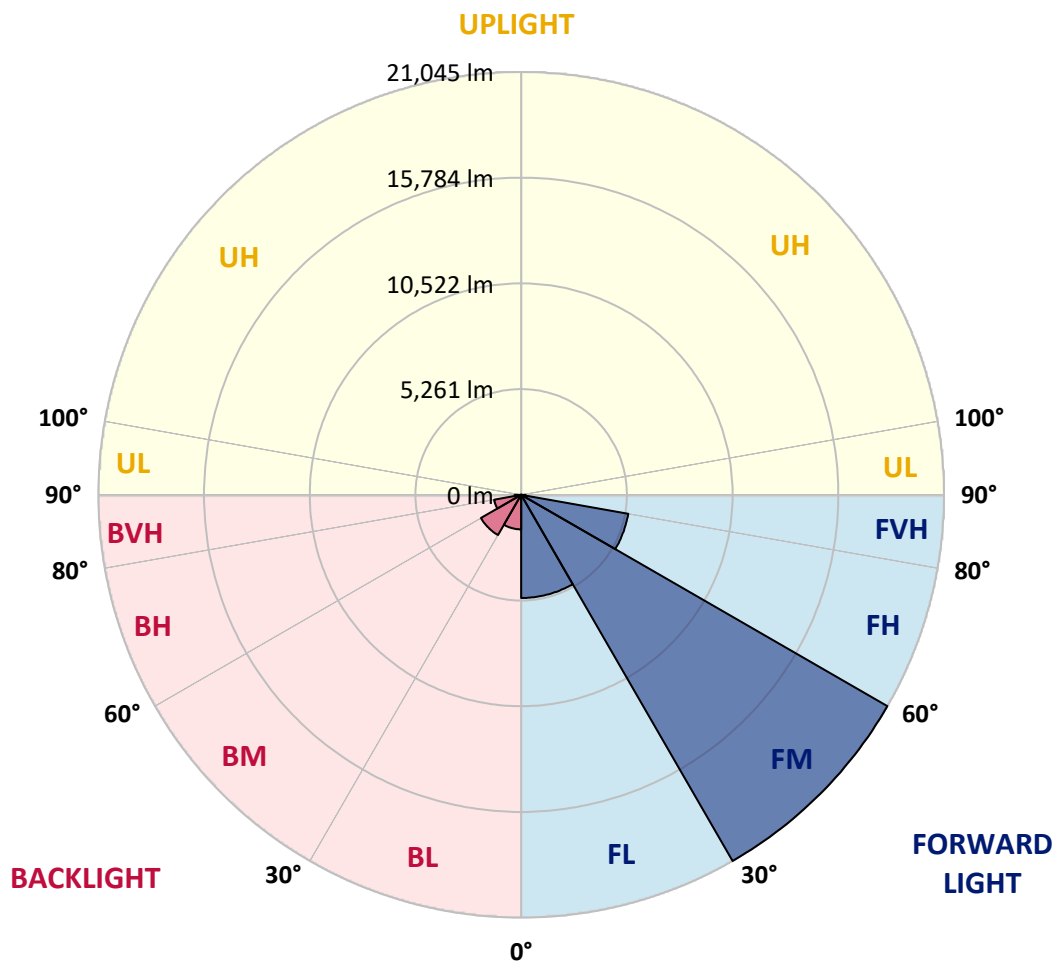
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5134.2	13.7			
FM (30°-60°)	21044.9	56.1			
FH (60°-80°)	5411.6	14.4			G3/7500
FVH (80°-90°)	213.3	0.6			G2/225
BL (0°-30°)	1720.0	4.6	B3/2500		
BM (30°-60°)	2310.0	6.2	B2/2500		
BH (60°-80°)	1365.6	3.6	B3/2500		G3/2500
BVH (80°-90°)	327.4	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°	9968.2	9968.2	9968.2	9968.2	9968.2	9968.2	9968.2	9968.2	9968.2	9968.2	9968.2
2.5°	11390.8	11298.9	11240.6	11189.4	11122.2	10979.1	10786.5	10664.5	10602.6	10392.4	10143.2
5°	12507.6	12426.3	12366.2	12297.3	12177.2	11952.8	11641.8	11394.3	11272.4	10851.9	10353.4
7.5°	12246.1	12279.7	12383.9	12565.9	12721.4	12691.3	12413.9	12099.5	11938.7	11353.7	10597.3
10°	10669.8	10728.1	10908.4	11334.3	12023.5	12730.3	12945.8	12728.5	12565.9	11850.3	10848.3
12.5°	10353.4	10351.7	10365.9	10479.0	10889.0	11883.8	12963.5	13182.6	13085.4	12323.8	11104.5
15°	10482.5	10486.0	10475.5	10523.1	10650.3	11044.4	12422.8	13357.5	13426.4	12800.9	11369.6
17.5°	10821.8	10813.0	10772.4	10772.4	10818.3	10972.0	11786.7	13195.1	13513.2	13223.3	11602.9
20°	11390.8	11350.2	11242.4	11143.4	11093.9	11177.0	11525.1	12820.4	13362.8	13592.7	11795.5
22.5°	12080.0	12048.2	11873.2	11661.2	11489.7	11488.0	11659.5	12493.4	13103.1	13940.7	11958.1
25°	12970.5	12919.3	12659.5	12320.3	12020.0	11905.0	11952.8	12477.5	12961.7	14319.0	12103.0
27.5°	14016.8	13923.1	13615.6	13126.2	12684.2	12452.8	12383.9	12765.6	13090.7	14787.2	12304.4
30°	15285.5	15177.8	14783.6	14145.7	13521.9	13142.1	12995.3	13276.3	13518.5	15358.0	12627.7
32.5°	16729.2	16573.6	16117.7	15414.5	14594.6	14014.9	13776.3	13951.3	14144.0	16045.3	13032.4
35°	18724.4	18538.7	17879.7	16909.4	15983.5	15186.6	14804.8	14932.0	15119.5	17070.3	13617.3
37.5°	20084.9	20001.9	19563.6	18651.9	17644.6	16727.5	16137.2	16211.4	16317.5	18351.5	14366.7
40°	20072.5	20106.1	20114.9	20123.8	19438.2	18559.9	17925.6	17847.9	17826.7	19758.1	15218.4
42.5°	19067.2	19205.0	19650.2	20553.3	20970.4	20567.5	19986.0	19761.6	19650.2	21415.7	16121.3
45°	17528.0	17602.2	18436.3	20199.8	21755.0	22555.5	22115.5	21408.5	21207.0	22938.8	16870.6
47.5°	16734.5	16815.8	17340.6	19263.3	21746.1	24161.7	24416.1	23069.6	22709.2	24264.2	17517.4
50°	14845.5	15015.1	15676.1	17634.0	20952.6	24900.4	26821.2	25048.8	24303.0	25554.2	18165.9
52.5°	11376.7	11638.3	12378.6	14955.1	18939.9	24534.6	28745.7	27448.5	26395.3	26890.1	18722.6
55°	7176.2	7370.7	7992.6	10562.0	15151.3	22631.4	29475.4	30044.4	29107.8	28155.3	19205.0
57.5°	3901.8	3988.4	4221.7	5831.4	9855.1	18423.9	28411.7	31521.7	31133.0	29229.8	19568.9
58°	3491.8	3550.1	3695.0	5054.0	8740.1	17273.5	27939.8	31527.1	31332.6	29387.1	19597.2
60°	2590.6	2560.6	2431.5	2883.9	4864.9	11933.4	25087.7	30265.2	30836.1	29579.7	19459.4
62.5°	2276.0	2203.6	1940.2	1910.2	2366.1	5497.4	19196.2	25925.3	27273.6	28480.6	18621.9
65°	2138.1	2060.4	1721.2	1611.6	1707.0	2325.5	11307.8	19443.5	21134.7	25147.7	16480.0
67.5°	2035.6	1934.9	1581.6	1431.4	1438.5	1537.4	4532.7	12246.1	14149.3	19093.7	12818.6
70°	1936.7	1827.2	1463.2	1290.0	1249.4	1215.8	1802.4	6130.2	7856.5	12060.6	8172.9
72.5°	1830.7	1722.9	1358.9	1178.7	1099.2	987.9	1176.9	2507.4	3502.4	5706.0	3707.3
75°	1677.0	1579.8	1254.7	1079.8	966.5	818.1	888.9	1309.4	1571.0	2272.5	1786.5
77.5°	1488.0	1408.5	1138.1	998.5	857.1	664.4	683.9	908.2	1007.3	1300.6	1062.1
80°	1069.2	1097.4	1012.6	897.6	763.4	539.0	524.8	662.7	715.7	835.9	690.9
82.5°	751.1	767.0	837.6	733.3	630.9	424.1	387.0	466.5	498.3	549.6	372.8
85°	517.8	500.0	574.2	510.6	455.9	282.7	265.1	316.4	335.7	341.0	192.5
87.5°	311.1	311.1	332.3	274.0	245.6	146.7	143.1	180.2	192.5	183.8	106.0
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°	9968.2	9968.2	9968.2	9968.2	9968.2	9968.2	9968.2	9968.2	9968.2	9968.2	9968.2
2.5°	9994.8	9869.3	9602.5	9388.6	9118.2	8837.3	8680.1	8512.2	8397.3	8314.3	8446.9
5°	10070.8	9814.5	9263.2	8740.1	8162.3	7561.5	7105.6	6681.5	6386.3	6202.5	6375.7
7.5°	10190.9	9796.8	8918.6	8024.5	6987.1	5986.9	5092.9	4532.7	4205.8	4044.9	4145.7
10°	10328.7	9768.6	8514.0	7054.3	5569.9	4310.0	3642.0	3415.9	3341.7	3311.5	3325.7
12.5°	10443.6	9708.5	8017.5	5880.9	4182.8	3403.5	3210.8	3205.5	3221.4	3224.9	3230.2
15°	10524.9	9620.2	7280.6	4658.2	3345.2	3101.3	3090.7	3122.5	3152.5	3164.9	3171.9
17.5°	10579.7	9438.1	6448.2	3682.6	2997.0	2954.6	2979.4	3020.0	3051.8	3060.6	3067.7
20°	10574.4	9171.2	5456.8	3071.2	2807.9	2807.9	2850.3	2882.1	2883.9	2873.3	2878.6
22.5°	10519.6	8805.5	4495.5	2746.1	2640.1	2670.1	2712.5	2682.5	2558.8	2477.4	2482.7
25°	10427.7	8369.0	3672.0	2539.2	2484.5	2537.5	2525.1	2299.0	2122.2	2042.7	2042.7
27.5°	10346.4	7853.1	3039.4	2359.0	2329.0	2394.4	2175.3	1970.3	1896.1	1859.0	1846.6
30°	10288.1	7296.5	2617.1	2185.9	2182.4	2134.6	1887.2	1830.7	1818.3	1788.3	1777.7
32.5°	10302.2	6732.6	2346.7	2033.9	2046.2	1827.2	1749.4	1761.8	1751.2	1719.4	1705.3
35°	10418.9	6197.2	2170.0	1896.1	1859.0	1650.5	1668.2	1691.1	1687.6	1643.4	1629.3
37.5°	10627.4	5690.1	2053.3	1781.2	1622.2	1562.2	1590.4	1625.8	1616.9	1586.9	1576.3
40°	10846.6	5213.0	1957.9	1691.1	1482.7	1502.1	1526.8	1546.3	1555.1	1563.9	1556.9
42.5°	11060.3	4714.7	1841.3	1599.3	1424.4	1445.6	1456.2	1475.6	1523.3	1556.9	1555.1
45°	11187.6	4246.4	1721.2	1468.5	1378.4	1390.8	1383.7	1422.6	1480.9	1535.7	1537.4
47.5°	11329.0	3882.4	1625.8	1348.3	1334.2	1343.0	1321.8	1360.7	1413.8	1480.9	1488.0
50°	11500.3	3664.9	1549.8	1252.9	1274.1	1274.1	1268.8	1304.1	1378.4	1456.2	1470.3
52.5°	11694.8	3622.5	1486.2	1184.0	1214.0	1212.3	1217.6	1270.6	1351.8	1427.9	1440.3
55°	11931.6	3737.5	1417.3	1132.8	1155.7	1162.8	1180.5	1240.5	1309.4	1396.1	1401.4
57.5°	12207.2	3970.7	1362.4	1092.1	1102.7	1125.7	1154.0	1208.7	1282.9	1378.4	1383.7
58°	12253.2	4020.2	1353.6	1088.6	1092.1	1118.6	1150.4	1203.4	1277.6	1382.0	1387.3
60°	12254.9	4184.6	1334.2	1072.7	1051.5	1095.7	1131.0	1184.0	1268.8	1394.3	1406.7
62.5°	11820.2	4182.8	1320.0	1049.7	1009.1	1063.9	1104.5	1166.3	1260.0	1424.4	1449.1
65°	10408.3	3801.1	1252.9	1014.4	975.4	1035.6	1081.5	1154.0	1284.7	1555.1	1571.0
67.5°	8141.1	3115.4	1127.5	964.8	931.3	1007.3	1067.4	1152.2	1311.2	1585.1	1595.7
70°	5382.6	2330.8	989.7	908.2	885.3	973.7	1074.5	1212.3	1281.2	1521.5	1493.3
72.5°	2793.8	1636.4	878.3	837.6	832.3	943.6	1176.9	1205.2	1251.1	1431.4	1396.1
75°	1466.8	1136.3	781.0	759.8	768.7	936.6	1389.0	1173.4	1212.3	1369.6	1436.7
77.5°	897.6	917.1	698.1	689.2	706.8	915.4	1387.3	1132.8	1155.7	1260.0	1334.2
80°	600.8	743.9	634.5	636.2	648.5	837.6	1245.8	1069.2	1086.8	1191.1	1267.0
82.5°	380.0	440.0	576.1	606.1	590.2	690.9	1058.6	973.7	998.5	1362.4	1440.3
85°	192.5	275.7	500.0	583.1	531.8	484.1	858.8	853.5	865.8	982.6	1026.8
87.5°	88.4	152.0	390.6	508.9	401.2	302.2	623.9	632.6	682.2	698.1	698.1
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)