

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: P192697

Luminaire Tested: **GAN-AF-09-LED-U-AFL-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192697
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-09-LED-U-AFL-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34788.2 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 290
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



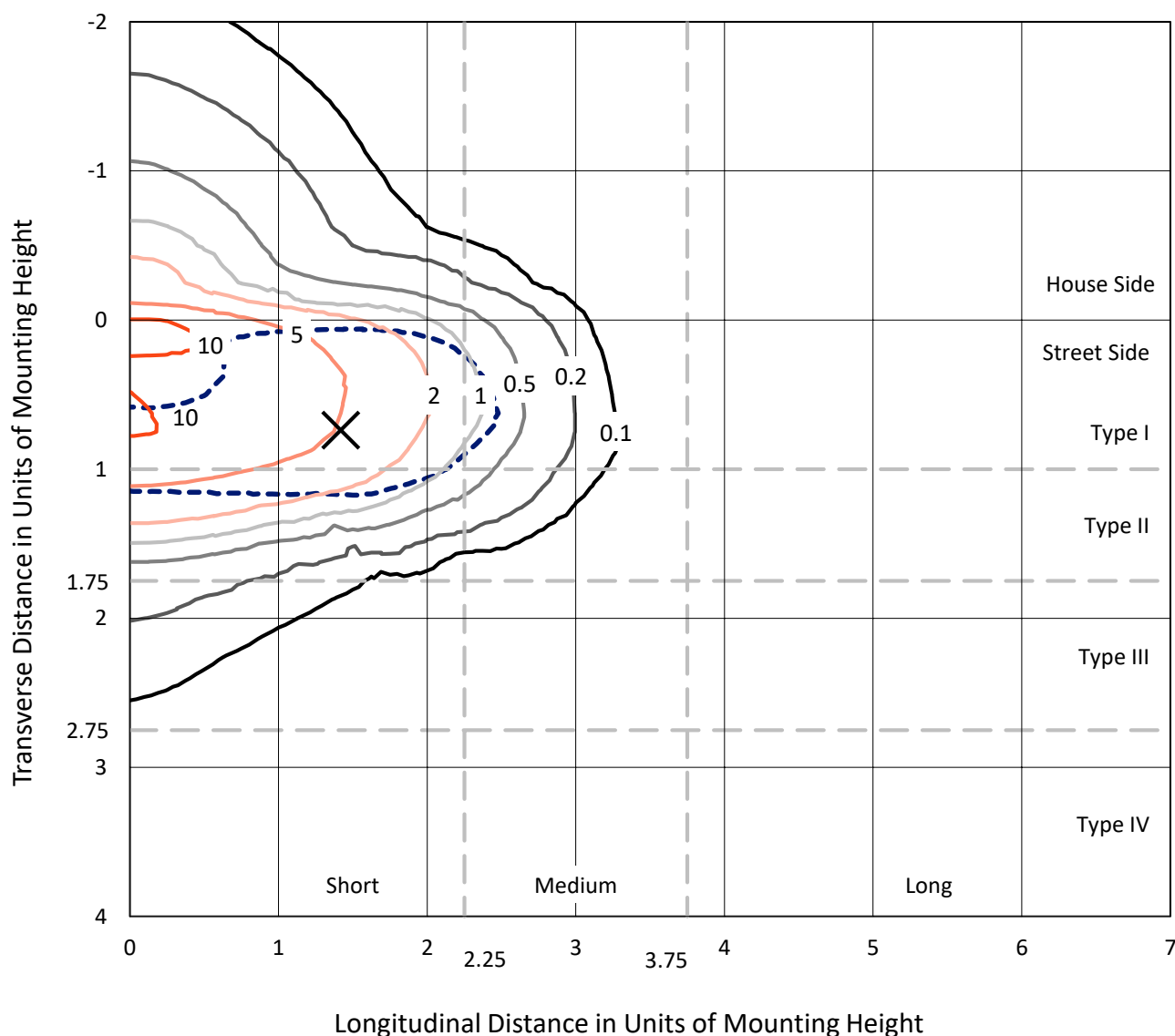
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

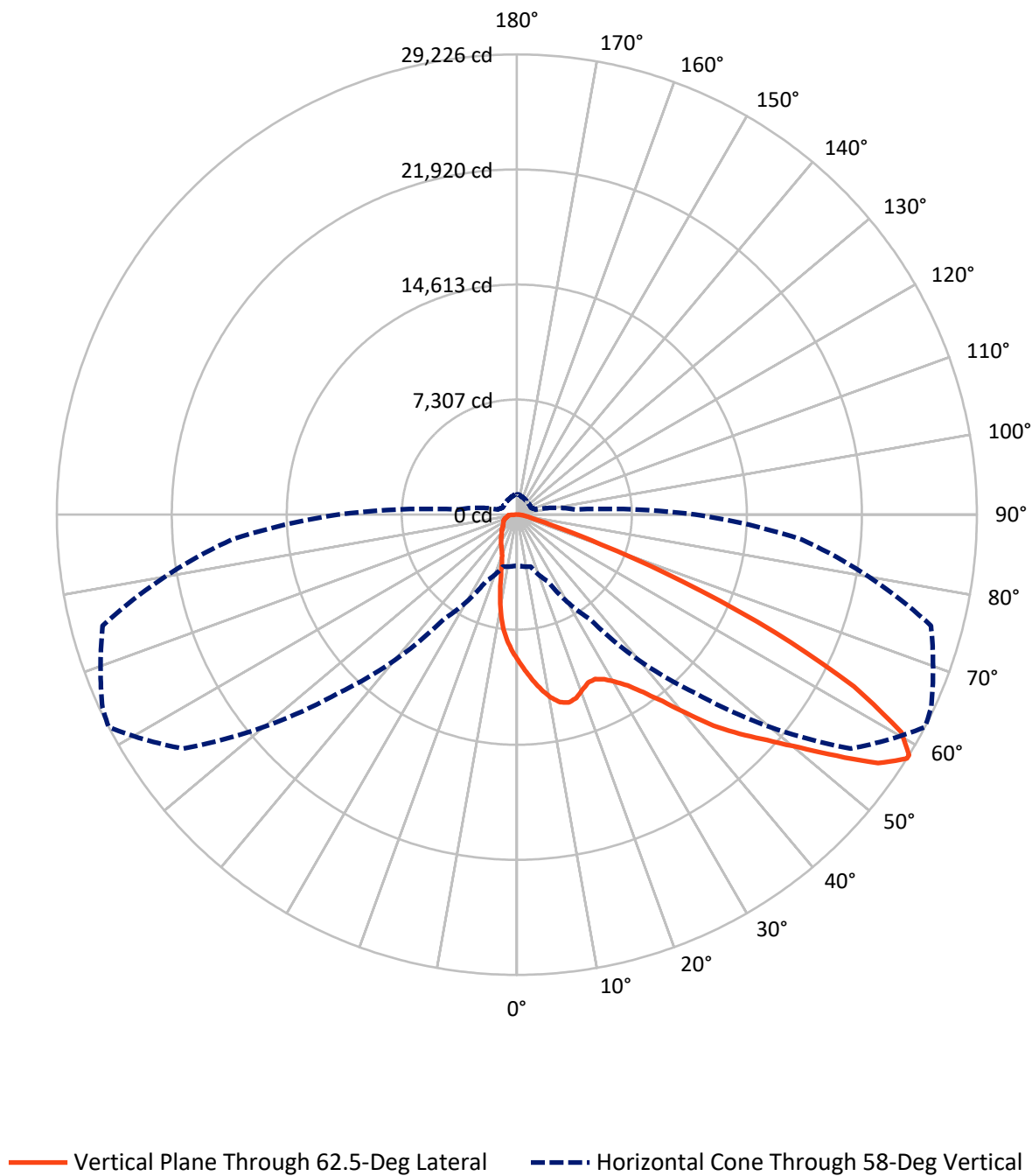


Based on 30 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5305.3	0.0	5305.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	29482.8	0.0	29482.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	34788.2	0.0	34788.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	826.5	2.4
10°-20°	2112.5	6.1
20°-30°	3415.0	9.8
30°-40°	5421.3	15.6
40°-50°	7932.4	22.8
50°-60°	8296.7	23.8
60°-70°	4901.7	14.1
70°-80°	1380.8	4.0
80°-90°	501.3	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°	34788.2	100.0
0°-180°	34788.2	100.0

Coefficient of Utilization



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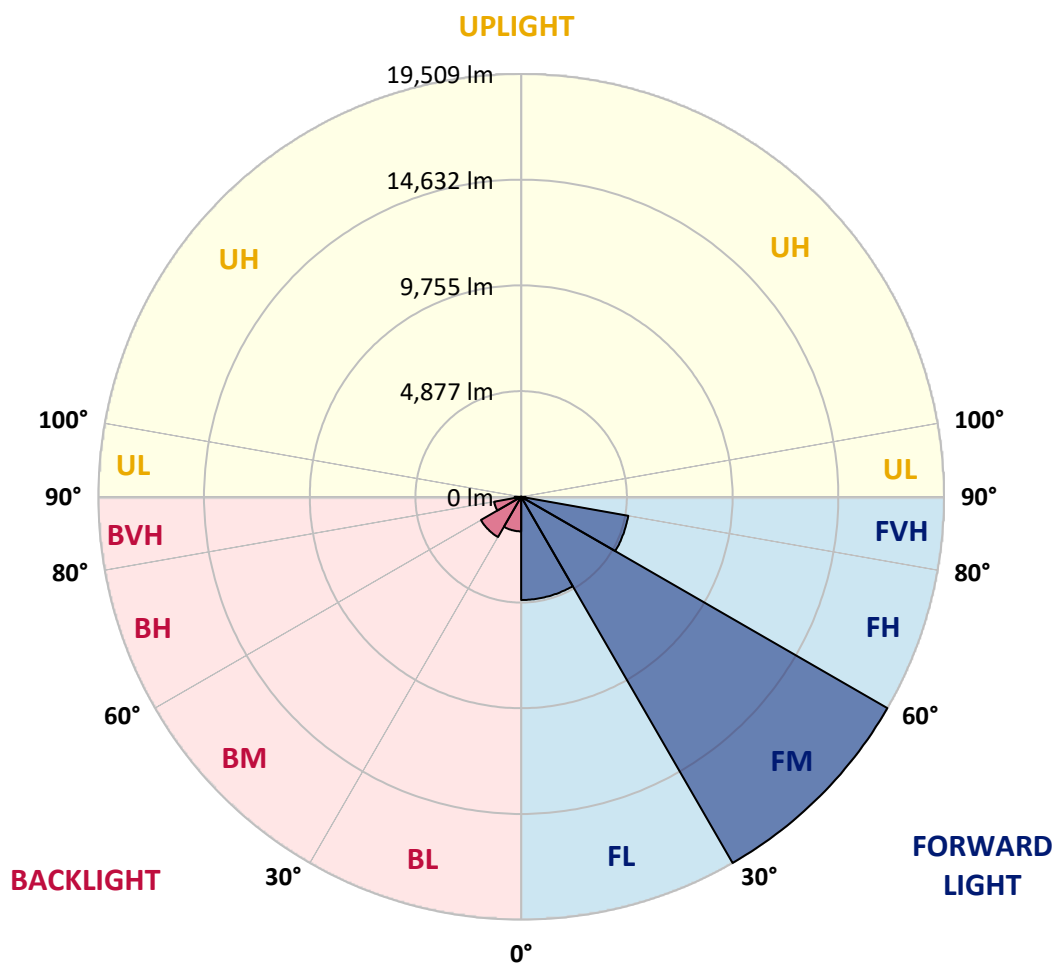
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4759.4	13.7			
FM	(30°-60°)	19509.0	56.1			
FH	(60°-80°)	5016.6	14.4			G3/7500
FVH	(80°-90°)	197.8	0.6			G2/225
BL	(0°-30°)	1594.5	4.6	B3/2500		
BM	(30°-60°)	2141.4	6.2	B2/2500		
BH	(60°-80°)	1265.9	3.6	B3/2500		G3/2500
BVH	(80°-90°)	303.5	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°	9240.7	9240.7	9240.7	9240.7	9240.7	9240.7	9240.7	9240.7	9240.7	9240.7	9240.7
2.5°	10559.5	10474.2	10420.3	10372.7	10310.5	10177.8	9999.2	9886.3	9828.9	9633.9	9403.0
5°	11594.8	11519.4	11463.7	11399.8	11288.4	11080.4	10792.1	10562.7	10449.7	10059.8	9597.9
7.5°	11352.4	11383.5	11480.1	11648.7	11793.0	11765.1	11507.9	11216.3	11067.3	10525.1	9823.9
10°	9891.1	9945.3	10112.3	10507.0	11146.0	11801.2	12001.0	11799.6	11648.7	10985.4	10056.6
12.5°	9597.9	9596.2	9609.4	9714.2	10094.3	11016.5	12017.4	12220.5	12130.4	11424.3	10294.1
15°	9717.4	9720.7	9711.0	9755.1	9873.1	10238.3	11516.2	12382.7	12446.6	11866.7	10539.8
17.5°	10031.9	10023.8	9986.1	9986.1	10028.7	10171.3	10926.4	12232.0	12526.9	12258.3	10756.0
20°	10559.5	10521.7	10421.9	10330.1	10284.2	10361.3	10683.9	11884.6	12387.6	12600.6	10934.5
22.5°	11198.3	11168.8	11006.7	10810.1	10651.2	10649.6	10808.5	11581.7	12146.8	12923.3	11085.3
25°	12024.0	11976.5	11735.6	11421.1	11142.7	11036.2	11080.4	11566.9	12015.8	13273.9	11219.7
27.5°	12993.7	12906.9	12621.8	12168.1	11758.6	11544.0	11480.1	11834.0	12135.3	13708.0	11406.3
30°	14170.0	14070.0	13704.7	13113.3	12535.1	12182.9	12046.9	12307.4	12531.8	14237.1	11706.1
32.5°	15508.3	15364.1	14941.5	14289.5	13529.5	12992.1	12771.0	12933.1	13111.6	14874.3	12081.4
35°	17357.8	17185.7	16574.7	15675.4	14816.9	14078.2	13724.4	13842.3	14016.0	15824.4	12623.5
37.5°	18619.1	18542.2	18135.8	17290.6	16356.8	15506.6	14959.6	15028.3	15126.6	17012.1	13318.0
40°	18607.6	18638.7	18647.0	18655.2	18019.6	17205.4	16617.4	16545.2	16525.6	18316.1	14107.7
42.5°	17675.5	17803.4	18216.1	19053.2	19439.9	19066.4	18527.4	18319.4	18216.1	19852.6	14944.8
45°	16248.7	16317.6	17090.8	18725.6	20167.2	20909.3	20501.4	19846.1	19659.3	21264.7	15639.4
47.5°	15513.1	15588.6	16075.1	17857.5	20159.0	22398.3	22634.2	21386.0	21051.7	22493.3	16238.8
50°	13762.1	13919.3	14531.9	16347.1	19423.4	23083.1	24863.7	23220.7	22529.4	23689.1	16840.1
52.5°	10546.4	10788.8	11475.2	13863.6	17557.6	22744.0	26647.7	25445.3	24468.9	24927.6	17356.2
55°	6652.5	6832.7	7409.3	9791.2	14045.4	20979.8	27324.2	27851.8	26983.5	26100.5	17803.4
57.5°	3617.0	3697.4	3913.5	5405.8	9135.9	17079.3	26338.0	29221.2	28860.9	27096.6	18140.8
58°	3237.1	3291.0	3425.4	4685.0	8102.2	16012.8	25900.7	29226.1	29045.9	27242.2	18167.0
60°	2401.5	2373.6	2254.1	2673.5	4509.7	11062.4	23256.7	28056.4	28585.6	27420.9	18039.2
62.5°	2109.9	2042.7	1798.7	1770.9	2193.5	5096.3	17795.2	24033.2	25283.1	26402.0	17262.8
65°	1982.2	1910.1	1595.5	1494.0	1582.4	2155.8	10482.5	18024.5	19592.2	23312.4	15277.2
67.5°	1887.1	1793.8	1466.1	1326.9	1333.4	1425.2	4201.8	11352.4	13116.6	17700.1	11883.0
70°	1795.4	1693.8	1356.4	1195.9	1158.1	1127.0	1670.9	5682.7	7283.2	11180.3	7576.4
72.5°	1697.2	1597.2	1259.8	1092.6	1019.0	915.7	1091.0	2324.5	3246.7	5289.6	3436.9
75°	1554.6	1464.5	1163.1	1001.0	896.0	758.5	824.1	1213.9	1456.3	2106.6	1656.2
77.5°	1379.3	1305.6	1055.0	925.5	794.6	615.9	633.9	842.0	933.7	1205.6	984.5
80°	991.1	1017.3	938.6	832.2	707.7	499.7	486.5	614.2	663.4	774.8	640.5
82.5°	696.2	710.9	776.5	679.8	584.9	393.2	358.8	432.4	461.9	509.4	345.7
85°	479.9	463.6	532.4	473.4	422.7	262.1	245.8	293.3	311.3	316.2	178.5
87.5°	288.3	288.3	308.0	253.9	227.7	135.9	132.6	167.0	178.5	170.3	98.4
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°	9240.7	9240.7	9240.7	9240.7	9240.7	9240.7	9240.7	9240.7	9240.7	9240.7	9240.7
2.5°	9265.3	9149.1	8901.7	8703.5	8452.9	8192.4	8046.5	7890.9	7784.5	7707.4	7830.3
5°	9335.7	9098.2	8587.1	8102.2	7566.5	7009.6	6587.0	6193.8	5920.2	5749.9	5910.4
7.5°	9447.2	9081.8	8267.7	7438.8	6477.2	5550.1	4721.1	4201.8	3898.8	3749.7	3843.0
10°	9574.9	9055.6	7892.6	6539.5	5163.4	3995.4	3376.2	3166.6	3097.7	3069.8	3083.0
12.5°	9681.5	8999.9	7432.3	5451.7	3877.5	3155.1	2976.5	2971.7	2986.4	2989.7	2994.6
15°	9756.8	8918.1	6749.2	4318.2	3101.0	2874.9	2865.1	2894.6	2922.4	2933.9	2940.5
17.5°	9807.5	8749.4	5977.6	3414.0	2778.3	2739.0	2761.8	2799.5	2829.0	2837.3	2843.8
20°	9802.6	8502.0	5058.6	2847.1	2603.0	2603.0	2642.3	2671.8	2673.5	2663.6	2668.5
22.5°	9751.8	8162.9	4167.4	2545.6	2447.4	2475.3	2514.6	2486.7	2372.0	2296.6	2301.5
25°	9666.7	7758.3	3404.1	2354.0	2303.1	2352.4	2340.9	2131.2	1967.4	1893.7	1893.7
27.5°	9591.4	7280.0	2817.6	2187.0	2159.1	2219.7	2016.6	1826.5	1757.8	1723.3	1711.9
30°	9537.2	6763.9	2426.1	2026.4	2023.2	1978.9	1749.6	1697.2	1685.7	1657.8	1647.9
32.5°	9550.4	6241.3	2175.5	1885.5	1897.0	1693.8	1621.7	1633.2	1623.4	1593.9	1580.8
35°	9658.5	5745.0	2011.7	1757.8	1723.3	1530.0	1546.4	1567.7	1564.4	1523.5	1510.4
37.5°	9851.8	5274.8	1903.6	1651.2	1503.9	1448.1	1474.4	1507.1	1498.9	1471.0	1461.3
40°	10054.9	4832.5	1815.1	1567.7	1374.4	1392.4	1415.4	1433.4	1441.5	1449.8	1443.2
42.5°	10253.1	4370.6	1706.9	1482.5	1320.3	1339.9	1349.8	1367.8	1412.0	1443.2	1441.5
45°	10371.1	3936.5	1595.5	1361.3	1277.8	1289.3	1282.7	1318.8	1372.8	1423.5	1425.2
47.5°	10502.1	3599.0	1507.1	1249.9	1236.9	1245.0	1225.4	1261.4	1310.6	1372.8	1379.3
50°	10661.1	3397.5	1436.6	1161.4	1181.1	1181.1	1176.1	1209.0	1277.8	1349.8	1362.9
52.5°	10841.2	3358.2	1377.6	1097.5	1125.4	1123.7	1128.6	1177.9	1253.2	1323.5	1335.0
55°	11060.8	3464.7	1313.9	1050.1	1071.4	1078.0	1094.2	1150.0	1213.9	1294.1	1299.1
57.5°	11316.3	3681.0	1263.0	1012.4	1022.2	1043.5	1069.7	1120.5	1189.3	1277.8	1282.7
58°	11358.9	3726.8	1254.9	1009.1	1012.4	1037.0	1066.5	1115.5	1184.4	1281.1	1286.0
60°	11360.6	3879.1	1236.9	994.4	974.7	1015.7	1048.5	1097.5	1176.1	1292.5	1304.0
62.5°	10957.5	3877.5	1223.7	973.1	935.4	986.2	1023.9	1081.1	1168.0	1320.3	1343.3
65°	9648.6	3523.6	1161.4	940.2	904.2	960.0	1002.6	1069.7	1190.9	1441.5	1456.3
67.5°	7547.0	2888.0	1045.2	894.4	863.2	933.7	989.5	1068.1	1215.5	1469.4	1479.3
70°	4989.8	2160.7	917.3	842.0	820.7	902.6	996.0	1123.7	1187.6	1410.4	1384.2
72.5°	2589.9	1516.9	814.2	776.5	771.6	874.7	1091.0	1117.1	1159.8	1326.9	1294.1
75°	1359.6	1053.4	724.1	704.4	712.6	868.2	1287.6	1087.6	1123.7	1269.6	1331.8
77.5°	832.2	850.1	647.1	638.8	655.2	848.5	1286.0	1050.1	1071.4	1168.0	1236.9
80°	557.0	689.7	588.2	589.8	601.2	776.5	1154.9	991.1	1007.5	1104.1	1174.5
82.5°	352.3	407.9	534.1	561.9	547.2	640.5	981.2	902.6	925.5	1263.0	1335.0
85°	178.5	255.5	463.6	540.7	493.1	448.8	796.2	791.2	802.7	910.7	951.7
87.5°	82.0	140.8	361.9	471.8	371.8	280.1	578.3	586.5	632.3	647.1	647.1
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)