

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: McGRAW-EDISON

Report Number: P300452

Luminaire Tested: **GLNA-AF-07-LED-E1-AFL-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300452
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: MCGRAW-EDISON
Catalog Number: GLNA-AF-07-LED-E1-AFL-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27429.8 lumens
Efficiency: N/A
Efficacy: 121.4 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): 226
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: 25 FT

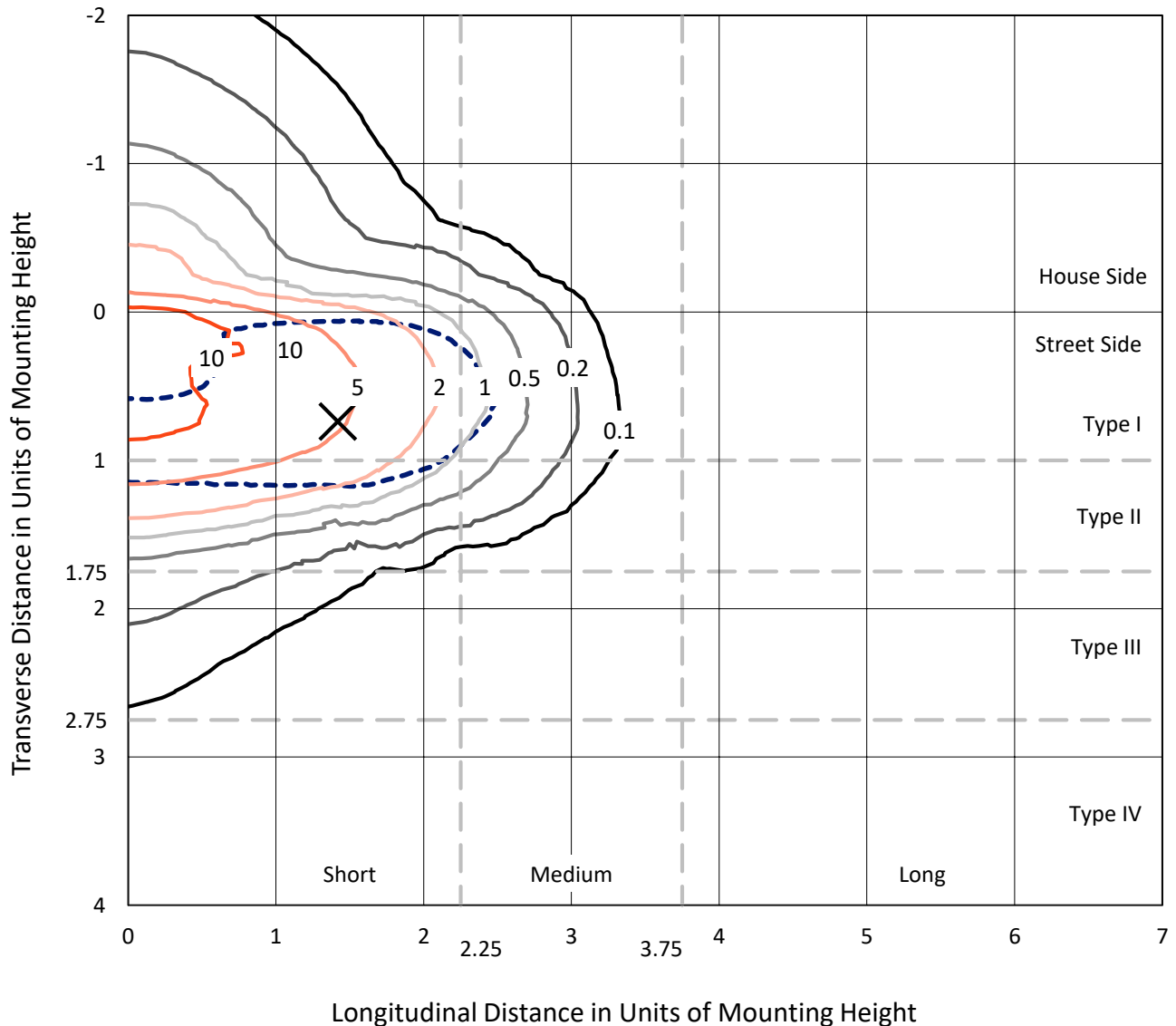


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

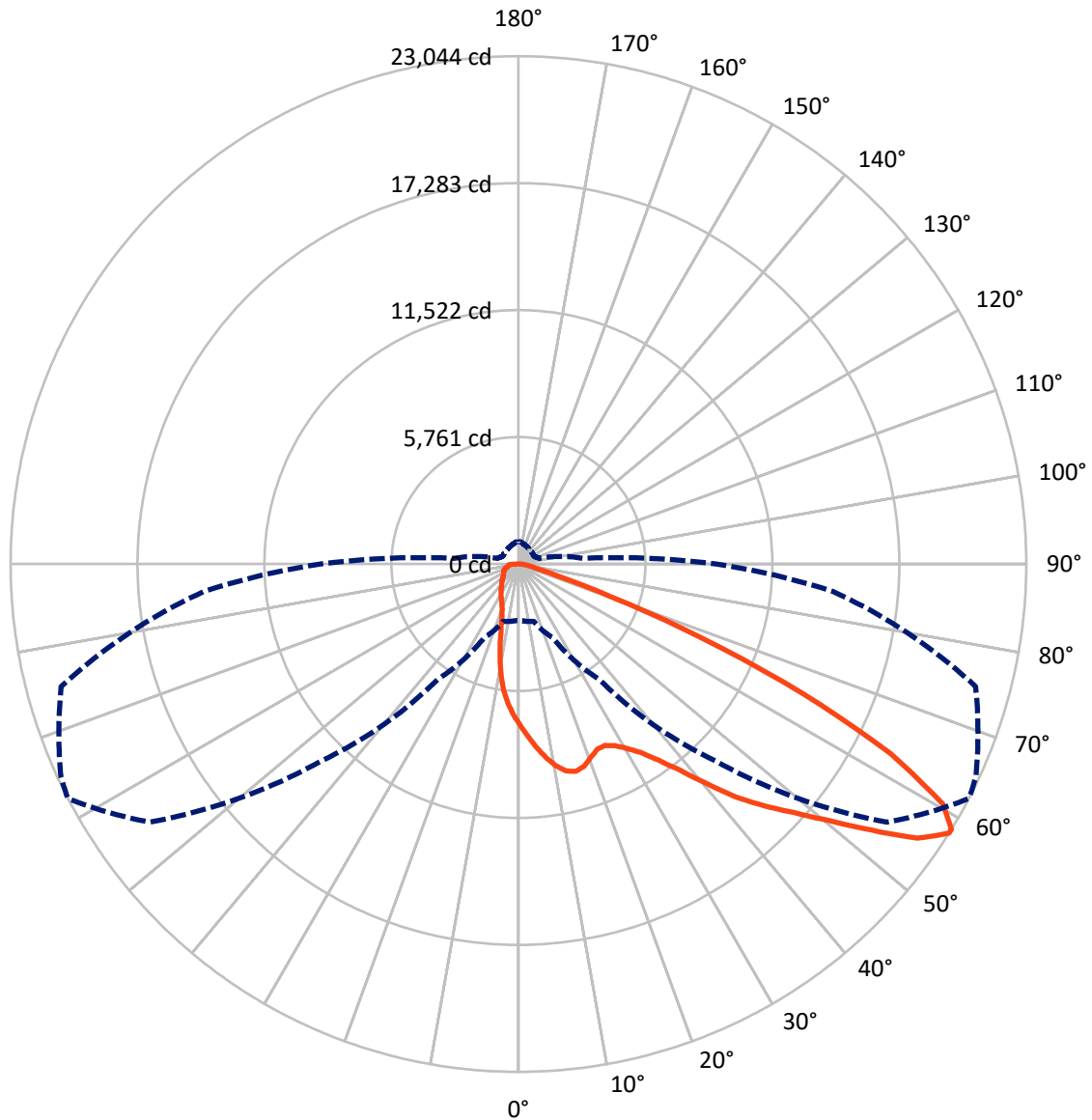


Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - Full Cutoff

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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	4183.1	0.0	4183.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	23246.7	0.0	23246.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	27429.8	0.0	27429.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.6	2.4
10°-20°	1665.7	6.1
20°-30°	2692.6	9.8
30°-40°	4274.6	15.6
40°-50°	6254.6	22.8
50°-60°	6541.8	23.8
60°-70°	3864.9	14.1
70°-80°	1088.8	4.0
80°-90°	395.3	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°	27429.8	100.0
0°-180°	27429.8	100.0



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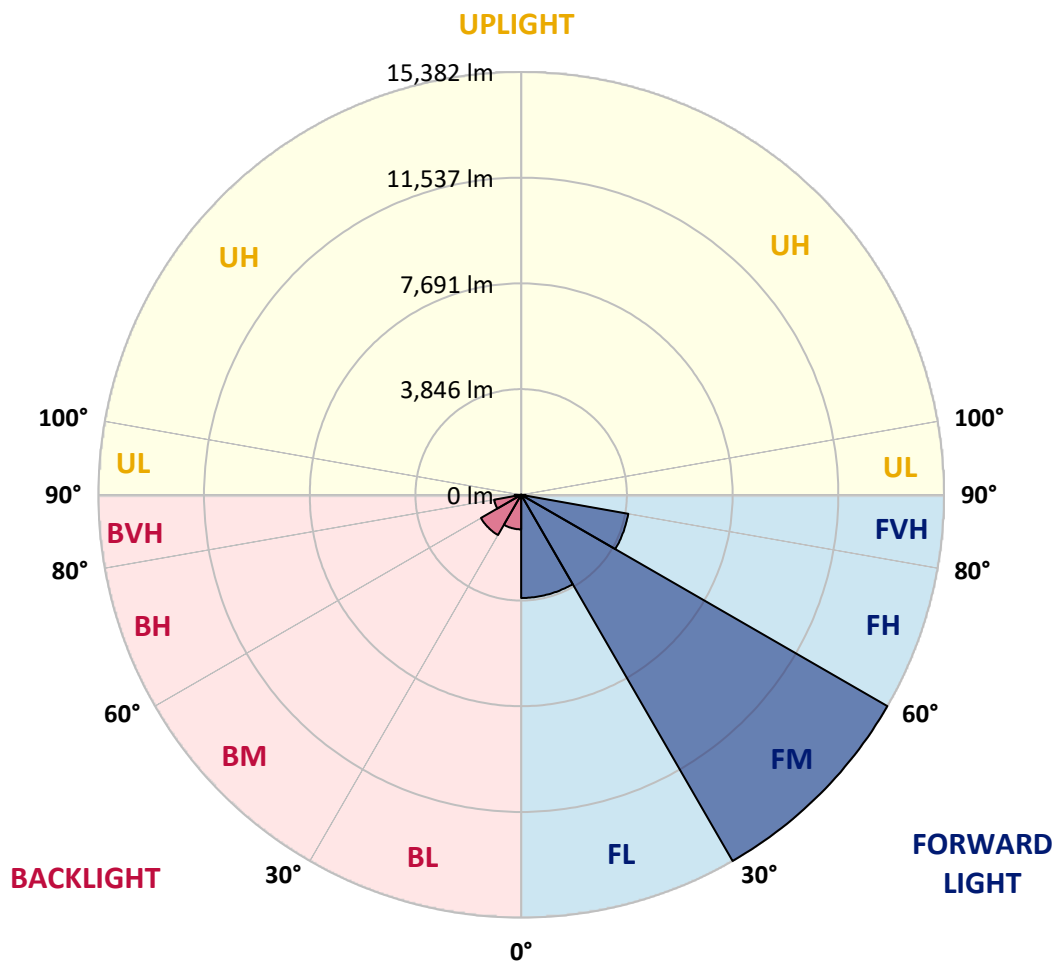
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3752.7	13.7			
FM	(30°-60°)	15382.5	56.1			
FH	(60°-80°)	3955.5	14.4			G2/5000
FVH	(80°-90°)	155.9	0.6			G2/225
BL	(0°-30°)	1257.2	4.6	B3/2500		
BM	(30°-60°)	1688.4	6.2	B2/2500		
BH	(60°-80°)	998.1	3.6	B2/1000		G2/1000
BVH	(80°-90°)	239.3	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°	7286.2	7286.2	7286.2	7286.2	7286.2	7286.2	7286.2	7286.2	7286.2	7286.2	7286.2
2.5°	8325.9	8258.8	8216.2	8178.7	8129.6	8025.0	7884.2	7795.1	7749.9	7596.2	7414.0
5°	9142.3	9082.8	9038.9	8988.6	8900.7	8736.7	8509.4	8328.5	8239.4	7932.0	7567.7
7.5°	8951.1	8975.6	9051.8	9184.9	9298.6	9276.6	9073.8	8843.9	8726.4	8298.8	7746.0
10°	7799.0	7841.6	7973.3	8284.6	8788.4	9305.0	9462.6	9303.7	9184.9	8661.8	7929.4
12.5°	7567.7	7566.5	7576.8	7659.5	7959.1	8686.3	9475.5	9635.7	9564.6	9007.9	8116.7
15°	7662.0	7664.6	7656.9	7691.7	7784.7	8072.8	9080.3	9763.5	9813.9	9356.7	8310.4
17.5°	7910.0	7903.6	7873.9	7873.9	7907.5	8019.8	8615.3	9644.7	9877.2	9665.4	8480.9
20°	8325.9	8296.2	8217.4	8145.1	8108.9	8169.7	8424.1	9370.9	9767.4	9935.3	8621.7
22.5°	8829.7	8806.4	8678.6	8523.6	8398.3	8397.0	8522.3	9131.9	9577.5	10189.8	8740.6
25°	9480.7	9443.2	9253.3	9005.3	8785.8	8701.8	8736.7	9120.3	9474.2	10466.2	8846.5
27.5°	10245.3	10176.9	9952.1	9594.3	9271.4	9102.2	9051.8	9330.8	9568.5	10808.5	8993.7
30°	11172.7	11093.9	10805.9	10339.6	9883.7	9606.0	9498.8	9704.1	9881.1	11225.7	9230.1
32.5°	12228.0	12114.3	11781.1	11267.0	10667.7	10244.0	10069.7	10197.5	10338.3	11728.1	9525.9
35°	13686.3	13550.6	13068.9	12359.8	11682.9	11100.4	10821.4	10914.4	11051.3	12477.3	9953.4
37.5°	14680.8	14620.1	14299.8	13633.3	12897.1	12226.7	11795.3	11849.6	11927.0	13413.7	10501.1
40°	14671.8	14696.3	14702.8	14709.3	14208.1	13566.1	13102.4	13045.6	13030.1	14441.9	11123.6
42.5°	13936.8	14037.6	14363.1	15023.1	15328.0	15033.5	14608.5	14444.5	14363.1	15653.4	11783.7
45°	12811.8	12866.1	13475.7	14764.8	15901.4	16486.6	16164.9	15648.3	15501.0	16766.8	12331.3
47.5°	12231.9	12291.3	12674.9	14080.2	15895.0	17660.7	17846.7	16862.4	16598.9	17735.6	12804.1
50°	10851.1	10975.1	11458.2	12889.3	15315.0	18200.6	19604.6	18309.1	17764.0	18678.5	13278.1
52.5°	8315.6	8506.8	9048.0	10931.2	13843.9	17933.2	21011.2	20063.1	19293.3	19655.0	13685.0
55°	5245.4	5387.5	5842.1	7720.2	11074.6	16542.1	21544.6	21960.5	21276.0	20579.8	14037.6
57.5°	2852.0	2915.2	3085.7	4262.4	7203.5	13466.7	20767.1	23040.4	22756.2	21365.1	14303.7
58°	2552.3	2594.9	2700.8	3694.1	6388.5	12625.8	20422.2	23044.2	22902.2	21480.1	14324.3
60°	1893.6	1871.6	1777.3	2108.0	3555.9	8722.5	18337.5	22122.0	22539.2	21620.8	14223.6
62.5°	1663.6	1610.7	1418.2	1396.3	1729.5	4018.3	14031.1	18949.7	19935.2	20817.4	13611.4
65°	1562.9	1506.1	1258.1	1178.0	1247.7	1699.8	8265.2	14212.0	15448.1	18381.4	12045.9
67.5°	1488.0	1414.4	1156.0	1046.2	1051.4	1123.7	3313.1	8951.1	10342.2	13956.2	9369.6
70°	1415.6	1335.6	1069.5	942.9	913.2	888.7	1317.5	4480.7	5742.7	8815.5	5973.9
72.5°	1338.1	1259.4	993.3	861.5	803.4	722.0	860.2	1832.8	2560.0	4170.7	2709.9
75°	1225.8	1154.7	917.1	789.2	706.5	598.0	649.7	957.1	1148.3	1661.1	1305.9
77.5°	1087.6	1029.4	831.8	729.8	626.4	485.7	499.9	663.9	736.2	950.7	776.3
80°	781.4	802.1	740.1	656.2	558.0	394.0	383.6	484.4	523.1	610.9	505.0
82.5°	548.9	560.6	612.2	536.0	461.1	310.0	282.9	341.0	364.2	401.7	272.5
85°	378.5	365.5	419.8	373.3	333.2	206.7	193.7	231.2	245.4	249.3	140.8
87.5°	227.3	227.3	242.8	200.2	179.5	107.2	104.6	131.7	140.8	134.3	77.5
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°	7286.2	7286.2	7286.2	7286.2	7286.2	7286.2	7286.2	7286.2	7286.2	7286.2	7286.2
2.5°	7305.5	7213.8	7018.8	6862.5	6664.9	6459.5	6344.6	6221.9	6137.9	6077.2	6174.1
5°	7361.1	7173.8	6770.8	6388.5	5966.1	5526.9	5193.7	4883.7	4668.0	4533.7	4660.3
7.5°	7448.9	7160.9	6518.9	5865.4	5107.2	4376.1	3722.5	3313.1	3074.1	2956.6	3030.2
10°	7549.7	7140.2	6223.1	5156.2	4071.3	3150.3	2662.1	2496.7	2442.5	2420.5	2430.9
12.5°	7633.6	7096.3	5860.2	4298.6	3057.3	2487.7	2346.9	2343.0	2354.7	2357.3	2361.1
15°	7693.0	7031.7	5321.6	3404.8	2445.1	2266.8	2259.1	2282.3	2304.3	2313.3	2318.5
17.5°	7733.1	6898.7	4713.2	2691.8	2190.6	2159.6	2177.7	2207.4	2230.7	2237.1	2242.3
20°	7729.2	6703.6	3988.6	2244.9	2052.4	2052.4	2083.4	2106.7	2108.0	2100.2	2104.1
22.5°	7689.2	6436.3	3285.9	2007.2	1929.7	1951.7	1982.7	1960.7	1870.3	1810.9	1814.8
25°	7622.0	6117.2	2684.0	1856.1	1816.1	1854.8	1845.8	1680.4	1551.3	1493.1	1493.1
27.5°	7562.6	5740.1	2221.6	1724.3	1702.4	1750.2	1590.0	1440.2	1385.9	1358.8	1349.8
30°	7520.0	5333.2	1912.9	1597.8	1595.2	1560.3	1379.5	1338.1	1329.1	1307.1	1299.4
32.5°	7530.3	4921.2	1715.3	1486.7	1495.7	1335.6	1278.7	1287.8	1280.0	1256.8	1246.4
35°	7615.5	4529.8	1586.1	1385.9	1358.8	1206.4	1219.3	1236.1	1233.5	1201.2	1190.9
37.5°	7768.0	4159.1	1500.9	1302.0	1185.7	1141.8	1162.5	1188.3	1181.9	1159.9	1152.1
40°	7928.1	3810.4	1431.1	1236.1	1083.7	1097.9	1116.0	1130.2	1136.6	1143.1	1137.9
42.5°	8084.4	3446.1	1345.9	1168.9	1041.1	1056.6	1064.3	1078.5	1113.4	1137.9	1136.6
45°	8177.4	3103.8	1258.1	1073.4	1007.5	1016.5	1011.4	1039.8	1082.4	1122.4	1123.7
47.5°	8280.7	2837.7	1188.3	985.5	975.2	981.7	966.2	994.6	1033.3	1082.4	1087.6
50°	8406.0	2678.9	1132.8	915.8	931.3	931.3	927.4	953.2	1007.5	1064.3	1074.6
52.5°	8548.1	2647.9	1086.3	865.4	887.4	886.1	889.9	928.7	988.1	1043.6	1052.7
55°	8721.2	2731.8	1035.9	827.9	844.7	849.9	862.8	906.7	957.1	1020.4	1024.3
57.5°	8922.7	2902.3	995.9	798.2	806.0	822.8	843.4	883.5	937.7	1007.5	1011.4
58°	8956.3	2938.5	989.4	795.7	798.2	817.6	840.9	879.6	933.9	1010.1	1013.9
60°	8957.6	3058.6	975.2	784.0	768.5	800.8	826.7	865.4	927.4	1019.1	1028.1
62.5°	8639.8	3057.3	964.9	767.2	737.5	777.6	807.3	852.5	920.9	1041.1	1059.1
65°	7607.8	2778.3	915.8	741.4	713.0	756.9	790.5	843.4	939.0	1136.6	1148.3
67.5°	5950.6	2277.2	824.1	705.2	680.7	736.2	780.2	842.2	958.4	1158.6	1166.4
70°	3934.4	1703.7	723.3	663.9	647.1	711.7	785.3	886.1	936.4	1112.1	1091.4
72.5°	2042.1	1196.1	641.9	612.2	608.4	689.7	860.2	880.9	914.5	1046.2	1020.4
75°	1072.1	830.5	570.9	555.4	561.9	684.6	1015.2	857.7	886.1	1001.0	1050.1
77.5°	656.2	670.4	510.2	503.7	516.7	669.1	1013.9	827.9	844.7	920.9	975.2
80°	439.2	543.8	463.7	465.0	474.0	612.2	910.6	781.4	794.4	870.6	926.1
82.5°	277.7	321.6	421.1	443.0	431.4	505.0	773.7	711.7	729.8	995.9	1052.7
85°	140.8	201.5	365.5	426.2	388.8	353.9	627.7	623.9	632.9	718.2	750.4
87.5°	64.6	111.1	285.5	372.0	293.2	220.9	456.0	462.4	498.6	510.2	510.2
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)