

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: P269456

Luminaire Tested: **GLEON-AF-07-LED-E1-AFL-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269456
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: GLEON-AF-07-LED-E1-AFL-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30319.9 lumens
Efficiency: N/A
Efficacy: 102.8 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): 295
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

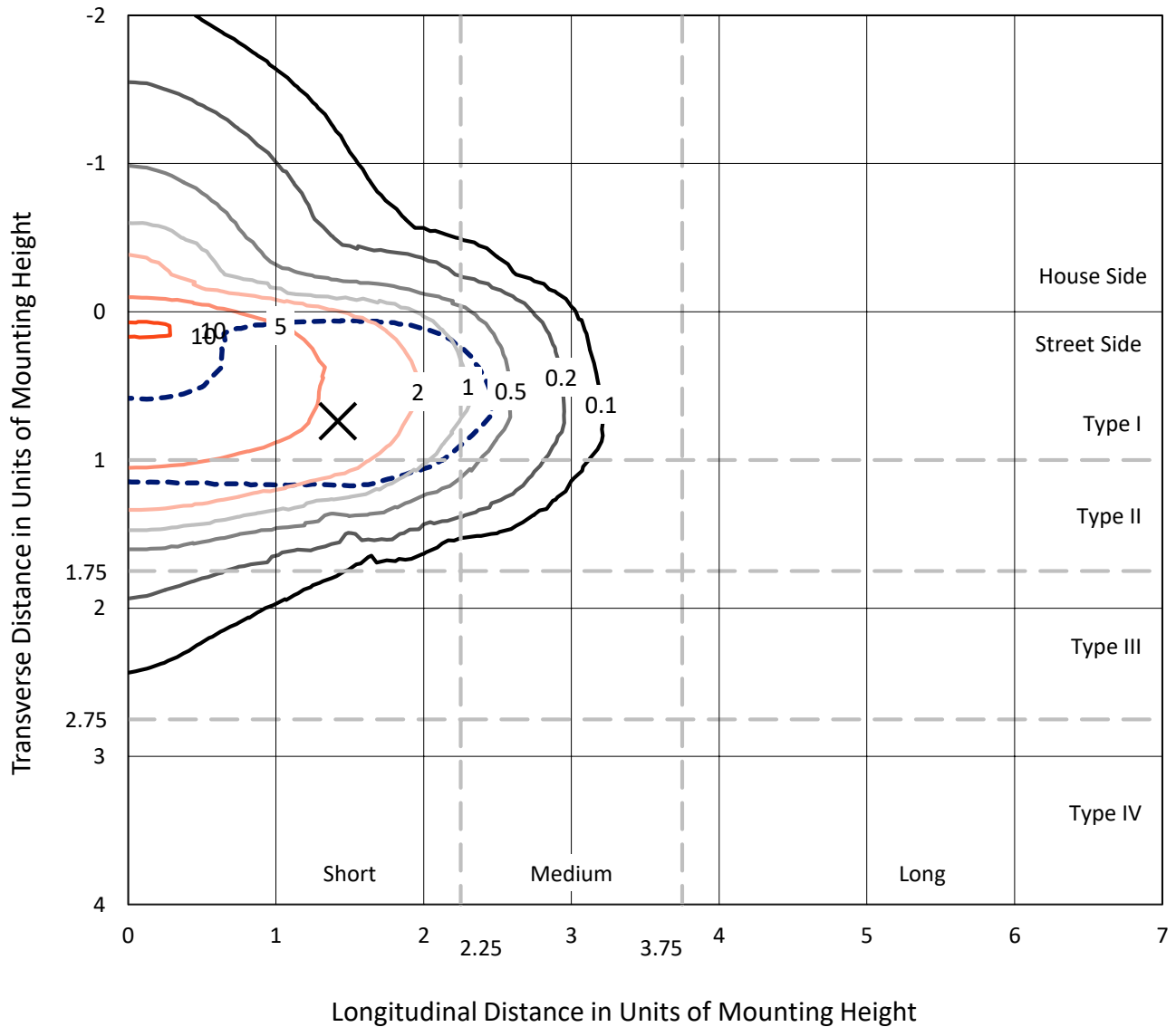


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

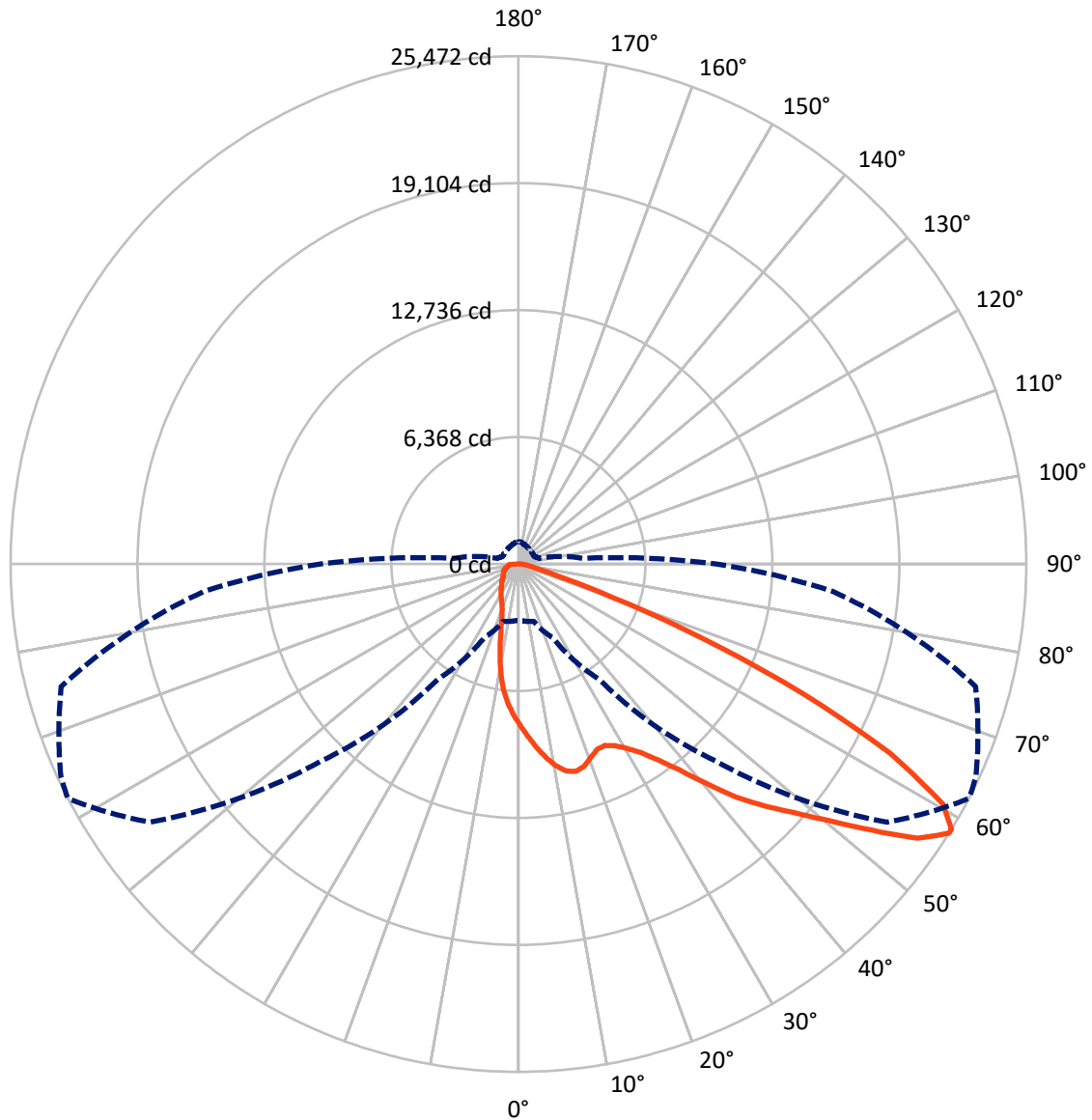


Based on 30 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - Full Cutoff

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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	4623.9	0.0	4623.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	25696.0	0.0	25696.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	30319.9	0.0	30319.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	720.3	2.4
10°-20°	1841.2	6.1
20°-30°	2976.4	9.8
30°-40°	4724.9	15.6
40°-50°	6913.6	22.8
50°-60°	7231.0	23.8
60°-70°	4272.1	14.1
70°-80°	1203.5	4.0
80°-90°	436.9	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°	30319.9	100.0
0°-180°	30319.9	100.0



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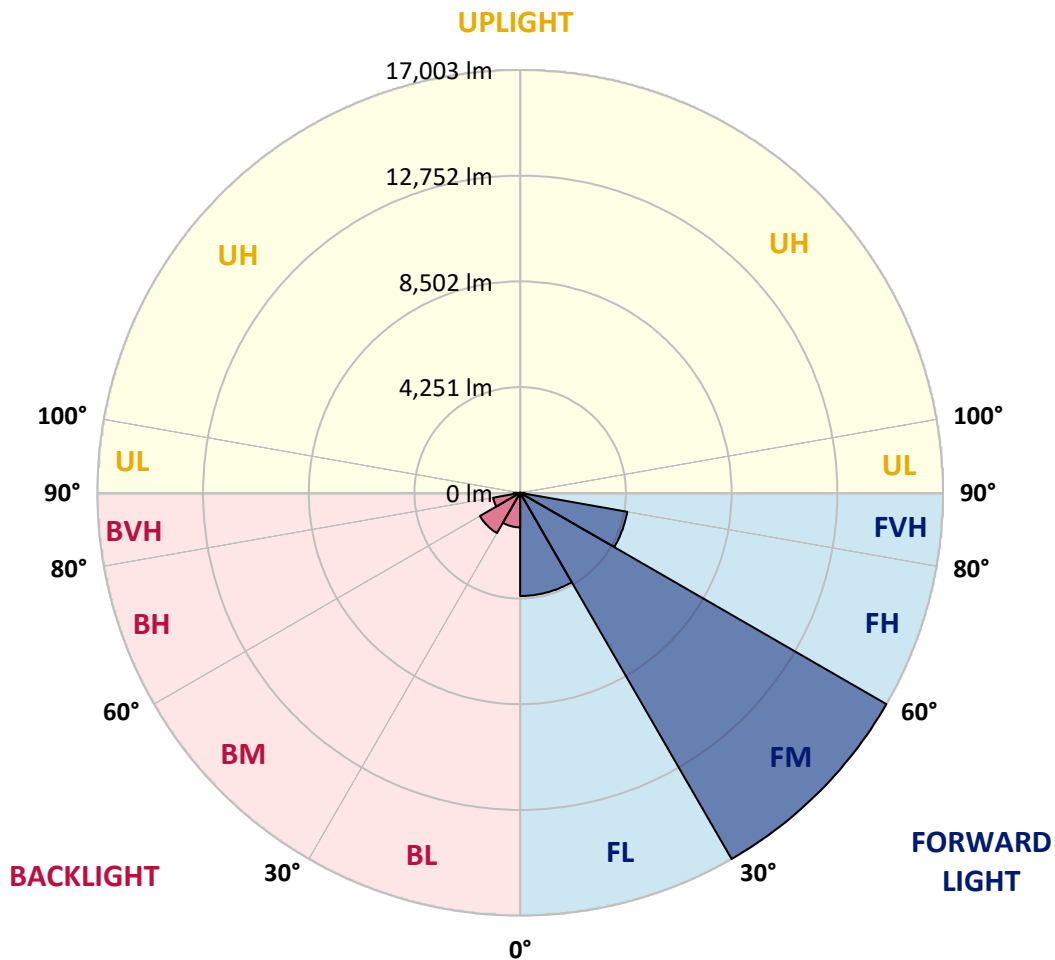
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4148.1	13.7			
FM	(30°-60°)	17003.2	56.1			
FH	(60°-80°)	4372.3	14.4			G2/5000
FVH	(80°-90°)	172.4	0.6			G2/225
BL	(0°-30°)	1389.7	4.6	B3/2500		
BM	(30°-60°)	1866.3	6.2	B2/2500		
BH	(60°-80°)	1103.3	3.6	B3/2500		G3/2500
BVH	(80°-90°)	264.6	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°	8053.8	8053.8	8053.8	8053.8	8053.8	8053.8	8053.8	8053.8	8053.8	8053.8	8053.8
2.5°	9203.1	9128.9	9081.9	9040.5	8986.1	8870.6	8714.8	8616.5	8566.4	8396.5	8195.1
5°	10105.6	10039.8	9991.3	9935.7	9838.5	9657.1	9406.0	9206.1	9107.6	8767.7	8365.1
7.5°	9894.2	9921.3	10005.6	10152.6	10278.2	10254.1	10029.8	9775.7	9645.8	9173.2	8562.1
10°	8620.7	8667.7	8813.5	9157.5	9714.4	10285.5	10459.7	10283.9	10152.6	9574.5	8764.9
12.5°	8365.1	8363.7	8375.1	8466.4	8797.7	9601.5	10473.9	10650.9	10572.4	9957.1	8971.9
15°	8469.3	8472.3	8463.7	8502.2	8605.0	8923.4	10037.0	10792.2	10847.9	10342.5	9186.1
17.5°	8743.5	8736.3	8703.5	8703.5	8740.6	8864.8	9523.0	10660.9	10917.9	10683.7	9374.5
20°	9203.1	9170.3	9083.3	9003.4	8963.4	9030.4	9311.7	10358.3	10796.5	10982.1	9530.2
22.5°	9760.1	9734.4	9593.0	9421.7	9283.2	9281.7	9420.3	10094.2	10586.6	11263.4	9661.5
25°	10479.5	10438.1	10228.3	9954.2	9711.4	9618.7	9657.1	10081.3	10472.5	11568.9	9778.6
27.5°	11324.8	11249.1	11000.7	10605.2	10248.4	10061.2	10005.6	10314.0	10576.6	11947.3	9941.4
30°	12350.0	12262.9	11944.5	11429.0	10925.0	10618.1	10499.6	10726.7	10922.2	12408.5	10202.6
32.5°	13516.3	13390.8	13022.4	12454.1	11791.7	11323.3	11130.7	11272.0	11427.6	12963.9	10529.6
35°	15128.4	14978.3	14445.9	13662.1	12913.9	12269.9	11961.7	12064.3	12215.7	13791.9	11002.1
37.5°	16227.7	16160.6	15806.4	15069.7	14255.9	13515.0	13038.1	13098.0	13183.7	14827.1	11607.4
40°	16217.7	16244.8	16252.0	16259.1	15705.1	14995.5	14483.0	14420.1	14403.1	15963.5	12295.7
42.5°	15405.4	15516.7	15876.5	16606.0	16942.9	16617.4	16147.8	15966.4	15876.5	17302.8	13025.2
45°	14161.7	14221.6	14895.5	16320.4	17576.9	18223.6	17868.1	17297.0	17134.4	18533.6	13630.6
47.5°	13520.7	13586.3	14010.3	15563.8	17569.8	19521.4	19727.0	18639.1	18347.8	19604.3	14153.2
50°	11994.3	12131.5	12665.5	14247.4	16928.6	20118.3	21670.3	20238.2	19635.7	20646.6	14677.1
52.5°	9191.7	9403.1	10001.3	12082.9	15302.4	19822.7	23225.0	22177.0	21326.1	21725.9	15126.9
55°	5798.0	5955.1	6457.6	8533.5	12241.5	18285.0	23814.6	24274.4	23517.6	22748.1	15516.7
57.5°	3152.4	3222.4	3410.9	4711.5	7962.4	14885.6	22955.2	25467.9	25153.9	23616.3	15810.8
58°	2821.1	2868.3	2985.3	4083.3	7061.5	13956.2	22574.0	25472.2	25315.2	23743.3	15833.6
60°	2093.1	2068.7	1964.6	2330.1	3930.5	9641.5	20269.5	24452.9	24914.0	23898.9	15722.2
62.5°	1838.9	1780.4	1567.6	1543.4	1911.8	4441.7	15509.5	20946.4	22035.8	23010.9	15045.5
65°	1727.6	1664.7	1390.7	1302.2	1379.2	1879.0	9136.1	15709.4	17075.7	20318.1	13315.0
67.5°	1644.7	1563.4	1277.7	1156.5	1162.1	1242.1	3662.1	9894.2	11431.9	15426.8	10356.7
70°	1564.8	1476.3	1182.2	1042.3	1009.4	982.2	1456.3	4952.9	6347.8	9744.4	6603.4
72.5°	1479.1	1392.1	1097.9	952.4	888.1	798.1	950.9	2025.9	2829.8	4610.2	2995.4
75°	1355.0	1276.4	1013.6	872.3	780.9	661.1	718.1	1057.9	1269.2	1836.0	1443.4
77.5°	1202.1	1138.0	919.4	806.7	692.5	536.8	552.5	733.8	813.9	1050.7	858.2
80°	863.8	886.6	818.0	725.3	616.7	435.5	424.0	535.4	578.1	675.3	558.2
82.5°	606.7	619.7	676.8	592.5	509.7	342.7	312.7	376.8	402.6	444.0	301.2
85°	418.3	404.1	464.1	412.6	368.3	228.3	214.2	255.6	271.3	275.6	155.6
87.5°	251.3	251.3	268.5	221.3	198.4	118.4	115.6	145.6	155.6	148.5	85.7
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°	8053.8	8053.8	8053.8	8053.8	8053.8	8053.8	8053.8	8053.8	8053.8	8053.8	8053.8
2.5°	8075.4	7974.0	7758.3	7585.6	7367.1	7140.1	7013.1	6877.5	6784.5	6717.5	6824.7
5°	8136.7	7929.7	7484.1	7061.5	6594.7	6109.4	5741.0	5398.3	5159.9	5011.4	5151.3
7.5°	8233.8	7915.3	7205.8	6483.3	5645.3	4837.2	4114.7	3662.1	3398.0	3268.2	3349.5
10°	8345.2	7892.6	6878.9	5699.6	4500.1	3482.3	2942.6	2759.9	2699.9	2675.6	2687.0
12.5°	8437.9	7844.0	6477.7	4751.6	3379.5	2749.8	2594.1	2590.0	2602.7	2605.7	2609.8
15°	8503.6	7772.7	5882.3	3763.4	2702.7	2505.7	2497.1	2522.8	2547.1	2557.0	2562.8
17.5°	8547.8	7625.5	5209.8	2975.4	2421.4	2387.2	2407.2	2439.9	2465.7	2472.9	2478.6
20°	8543.6	7409.9	4408.8	2481.4	2268.7	2268.7	2303.0	2328.6	2330.1	2321.5	2325.8
22.5°	8499.4	7114.4	3632.1	2218.8	2133.0	2157.3	2191.5	2167.3	2067.4	2001.8	2005.9
25°	8425.1	6761.7	2966.8	2051.6	2007.4	2050.2	2040.2	1857.4	1714.8	1650.5	1650.5
27.5°	8359.4	6344.9	2455.6	1906.1	1881.8	1934.6	1757.5	1591.9	1532.0	1502.0	1491.9
30°	8312.2	5895.1	2114.5	1766.1	1763.3	1724.7	1524.9	1479.1	1469.2	1444.8	1436.3
32.5°	8323.8	5439.6	1896.1	1643.3	1653.3	1476.3	1413.5	1423.5	1414.9	1389.1	1377.8
35°	8417.9	5007.2	1753.2	1532.0	1502.0	1333.5	1347.7	1366.3	1363.4	1327.8	1316.3
37.5°	8586.4	4597.3	1659.0	1439.2	1310.6	1262.1	1284.9	1313.5	1306.3	1282.2	1273.5
40°	8763.4	4211.9	1581.9	1366.3	1197.9	1213.6	1233.6	1249.3	1256.4	1263.6	1257.8
42.5°	8936.2	3809.3	1487.8	1292.1	1150.8	1167.8	1176.5	1192.2	1230.7	1257.8	1256.4
45°	9039.0	3430.8	1390.7	1186.4	1113.5	1123.6	1117.9	1149.3	1196.5	1240.6	1242.1
47.5°	9153.2	3136.7	1313.5	1089.4	1078.0	1085.2	1067.9	1099.3	1142.1	1196.5	1202.1
50°	9291.7	2961.2	1252.1	1012.3	1029.4	1029.4	1025.1	1053.7	1113.5	1176.5	1187.9
52.5°	9448.7	2926.9	1200.8	956.5	980.9	979.4	983.7	1026.6	1092.2	1153.7	1163.7
55°	9640.2	3019.7	1145.1	915.2	933.8	939.4	953.7	1002.2	1057.9	1127.9	1132.3
57.5°	9862.9	3208.1	1100.9	882.3	890.8	909.4	932.4	976.5	1036.6	1113.5	1117.9
58°	9900.0	3248.1	1093.6	879.5	882.3	903.8	929.4	972.2	1032.2	1116.6	1120.7
60°	9901.4	3381.0	1078.0	866.7	849.4	885.2	913.8	956.5	1025.1	1126.5	1136.4
62.5°	9550.2	3379.5	1066.5	848.1	815.2	859.5	892.3	942.3	1018.0	1150.8	1170.8
65°	8409.4	3071.0	1012.3	819.6	788.2	836.6	873.8	932.4	1037.9	1256.4	1269.2
67.5°	6577.6	2517.1	910.9	779.5	752.4	813.9	862.4	930.9	1059.5	1280.7	1289.2
70°	4348.9	1883.1	799.5	733.8	715.3	786.6	868.0	979.4	1035.0	1229.3	1206.5
72.5°	2257.3	1322.0	709.7	676.8	672.6	762.4	950.9	973.8	1010.9	1156.5	1127.9
75°	1185.0	918.1	631.1	613.9	621.1	756.7	1122.3	948.0	979.4	1106.5	1160.8
77.5°	725.3	741.0	564.0	556.8	571.1	739.6	1120.7	915.2	933.8	1018.0	1078.0
80°	485.4	601.1	512.6	514.0	524.0	676.8	1006.6	863.8	878.1	962.4	1023.7
82.5°	307.0	355.5	465.4	489.8	476.9	558.2	855.2	786.6	806.7	1100.9	1163.7
85°	155.6	222.7	404.1	471.2	429.7	391.2	693.9	689.5	699.6	793.8	829.6
87.5°	71.3	122.8	315.6	411.2	324.1	244.1	503.9	511.1	551.1	564.0	564.0
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)