

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: P193514

Luminaire Tested: **GLEON-AF-06-LED-E1-AFL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193514
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-06-LED-E1-AFL-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29804 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

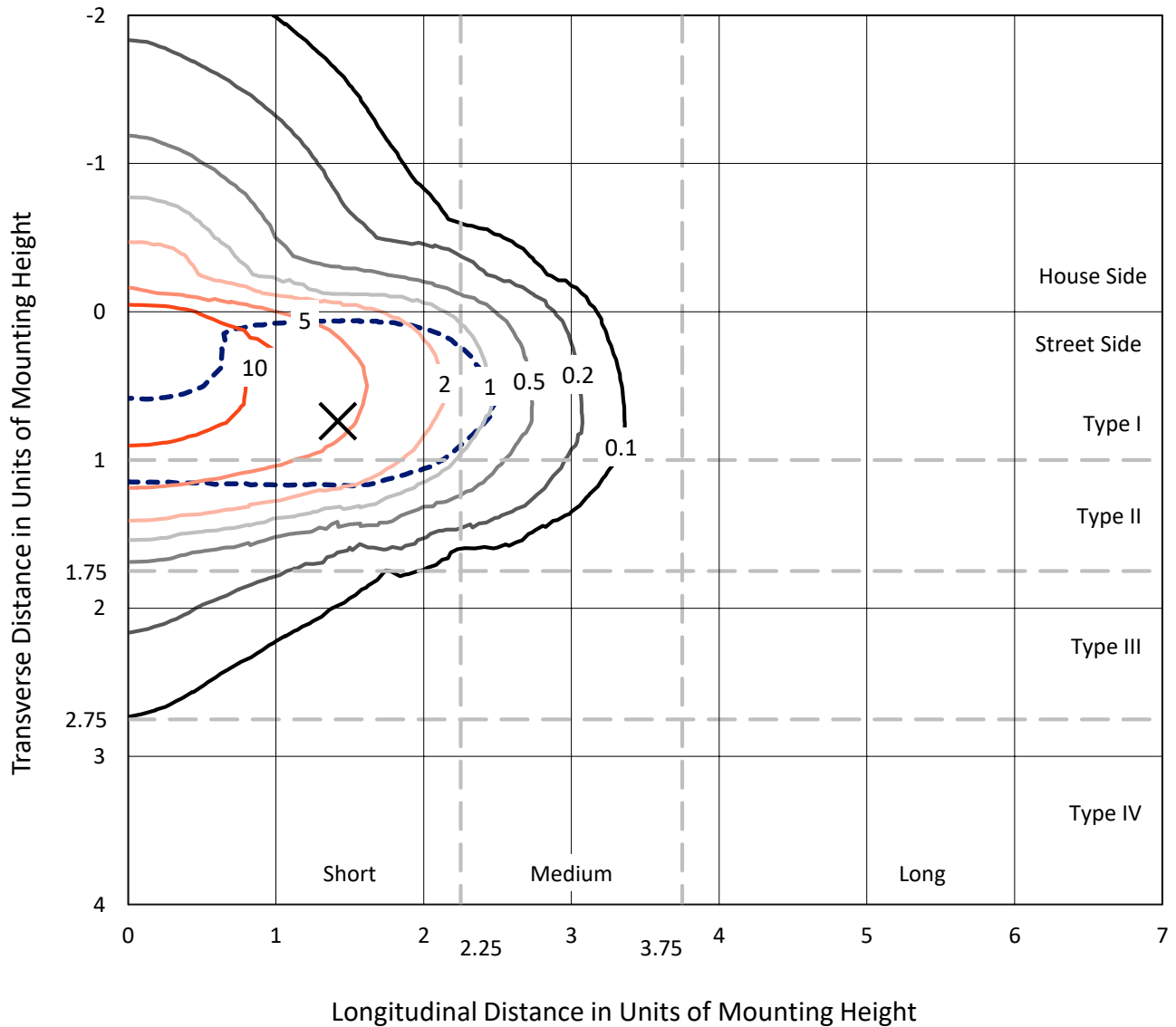
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

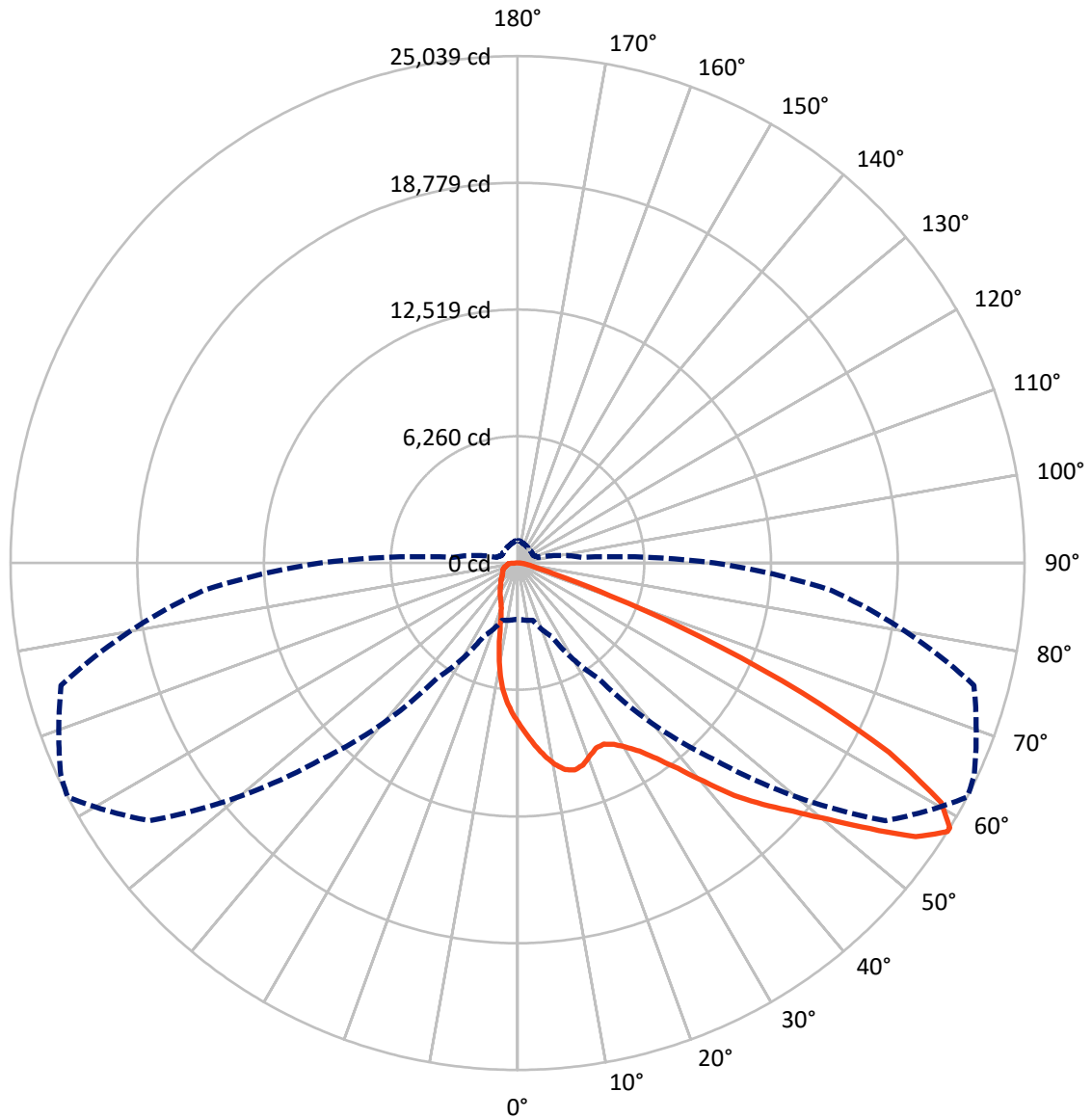
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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	4545.2	0.0	4545.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	25258.8	0.0	25258.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	29804.0	0.0	29804.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	708.0	2.4
10°-20°	1809.9	6.1
20°-30°	2925.7	9.8
30°-40°	4644.6	15.6
40°-50°	6795.9	22.8
50°-60°	7108.0	23.8
60°-70°	4199.4	14.1
70°-80°	1183.0	4.0
80°-90°	429.5	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°	29804.0	100.0
0°-180°	29804.0	100.0

Coefficient of Utilization



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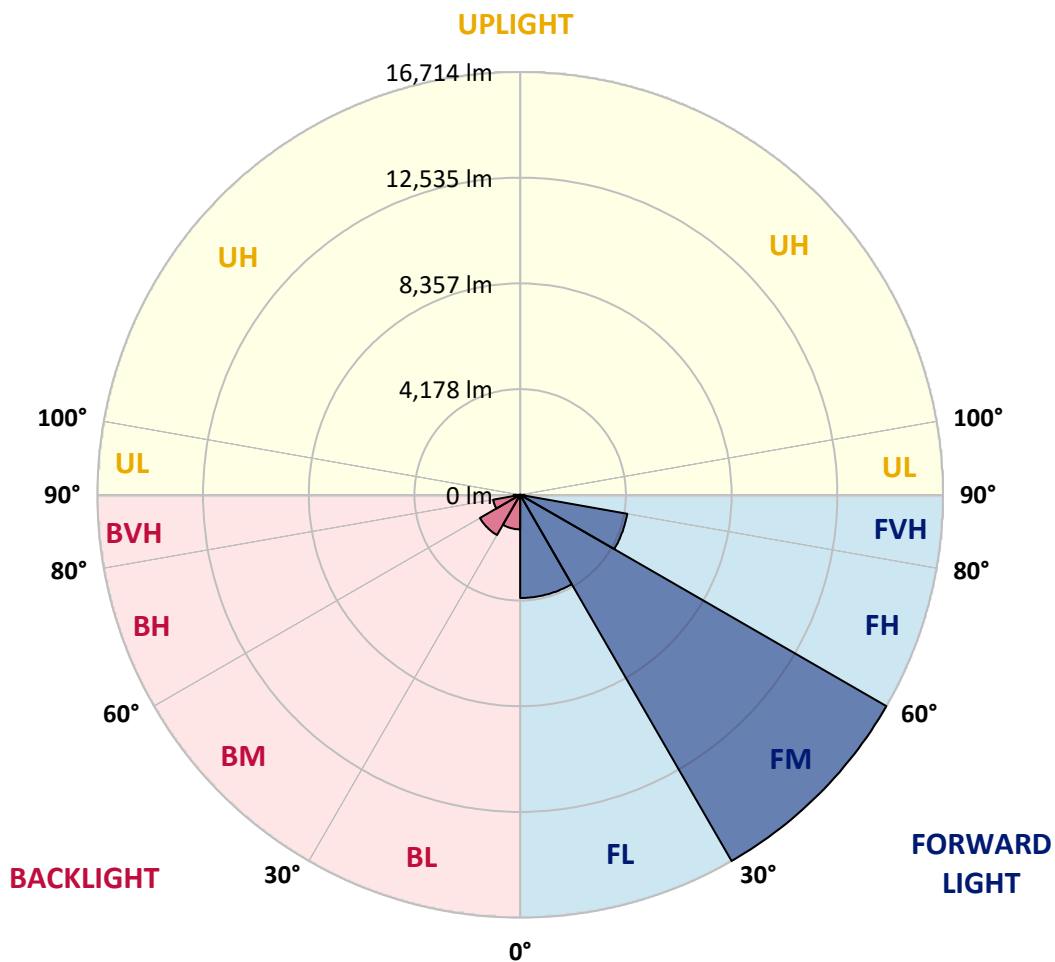
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4077.6	13.7			
FM	(30°-60°)	16713.9	56.1			
FH	(60°-80°)	4297.9	14.4			G2/5000
FVH	(80°-90°)	169.4	0.6			G2/225
BL	(0°-30°)	1366.1	4.6	B3/2500		
BM	(30°-60°)	1834.6	6.2	B2/2500		
BH	(60°-80°)	1084.5	3.6	B3/2500		G3/2500
BVH	(80°-90°)	260.1	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°	7916.8	7916.8	7916.8	7916.8	7916.8	7916.8	7916.8	7916.8	7916.8	7916.8	7916.8
2.5°	9046.6	8973.6	8927.3	8886.6	8833.3	8719.6	8566.6	8469.8	8420.7	8253.7	8055.8
5°	9933.6	9869.0	9821.3	9766.6	9671.1	9492.9	9245.9	9049.4	8952.6	8618.5	8222.8
7.5°	9725.9	9752.5	9835.3	9979.9	10103.4	10079.5	9859.2	9609.4	9481.7	9017.1	8416.5
10°	8474.0	8520.3	8663.5	9001.7	9549.0	10110.4	10281.6	10109.0	9979.9	9411.5	8615.7
12.5°	8222.8	8221.4	8232.6	8322.4	8648.0	9438.2	10295.7	10469.7	10392.5	9787.6	8819.2
15°	8325.2	8328.0	8319.6	8357.5	8458.6	8771.5	9866.2	10608.6	10663.4	10166.5	9029.8
17.5°	8594.7	8587.7	8555.4	8555.4	8591.9	8714.0	9361.0	10479.5	10732.1	10502.0	9215.0
20°	9046.6	9014.3	8928.7	8850.1	8810.8	8876.8	9153.3	10182.0	10612.8	10795.3	9368.0
22.5°	9593.9	9568.7	9429.7	9261.3	9125.2	9123.8	9259.9	9922.3	10406.5	11071.8	9497.1
25°	10301.3	10260.6	10054.3	9784.8	9546.2	9455.0	9492.9	9909.7	10294.3	11372.1	9612.2
27.5°	11132.1	11057.7	10813.5	10424.8	10073.9	9890.1	9835.3	10138.5	10396.7	11744.0	9772.2
30°	12139.8	12054.2	11741.2	11234.6	10739.2	10437.4	10320.9	10544.1	10736.3	12197.3	10029.0
32.5°	13286.4	13162.9	12800.8	12242.2	11591.0	11130.7	10941.2	11080.2	11233.2	12743.3	10350.4
35°	14870.9	14723.5	14200.0	13429.6	12694.1	12061.2	11758.1	11859.1	12007.9	13557.3	10814.9
37.5°	15951.5	15885.6	15537.5	14813.3	14013.4	13285.0	12816.2	12875.2	12959.4	14574.8	11410.0
40°	15941.7	15968.4	15975.4	15982.4	15437.9	14740.4	14236.5	14174.8	14157.9	15691.9	12086.5
42.5°	15143.2	15252.6	15606.3	16323.5	16654.7	16334.7	15872.9	15694.7	15606.3	17008.3	12803.6
45°	13920.8	13979.7	14642.1	16042.8	17277.8	17913.6	17564.1	17002.7	16842.7	18218.1	13398.7
47.5°	13290.6	13355.2	13772.0	15298.9	17270.8	19189.3	19391.4	18322.0	18035.7	19270.7	13912.3
50°	11790.3	11925.1	12449.9	14005.0	16640.6	19775.9	21301.5	19893.8	19301.6	20295.2	14427.4
52.5°	9035.4	9243.1	9831.1	11877.3	15042.1	19485.4	22829.8	21799.7	20963.2	21356.2	14869.5
55°	5699.4	5853.8	6347.8	8388.4	12033.1	17973.9	23409.4	23861.3	23117.5	22361.1	15252.6
57.5°	3098.8	3167.6	3352.8	4631.4	7827.0	14632.3	22564.6	25034.6	24725.9	23214.4	15541.7
58°	2773.2	2819.5	2934.6	4013.8	6941.4	13718.7	22189.8	25038.8	24884.5	23339.3	15564.2
60°	2057.4	2033.6	1931.1	2290.4	3863.7	9477.5	19924.7	24036.8	24490.1	23492.2	15454.7
62.5°	1807.6	1750.1	1541.0	1517.1	1879.2	4366.1	15245.6	20589.9	21660.7	22619.3	14789.5
65°	1698.2	1636.4	1367.0	1279.9	1355.7	1846.9	8980.6	15442.1	16785.2	19972.4	13088.5
67.5°	1616.8	1536.8	1256.1	1136.8	1142.4	1221.0	3599.8	9725.9	11237.4	15164.2	10180.6
70°	1538.2	1451.2	1162.1	1024.5	992.2	965.6	1431.5	4868.5	6239.7	9578.5	6490.9
72.5°	1454.0	1368.4	1079.2	936.1	872.9	784.5	934.7	1991.5	2781.6	4531.7	2944.4
75°	1331.9	1254.7	996.4	857.5	767.7	649.8	705.9	1040.0	1247.7	1804.8	1418.9
77.5°	1181.7	1118.5	903.8	792.9	680.7	527.7	543.1	721.4	800.0	1032.9	843.5
80°	849.1	871.5	804.2	712.9	606.3	428.1	416.8	526.3	568.4	663.8	548.7
82.5°	596.5	609.1	665.2	582.4	501.0	336.8	307.4	370.5	395.8	436.5	296.1
85°	411.2	397.2	456.1	405.6	362.1	224.6	210.5	251.2	266.7	270.9	153.0
87.5°	247.0	247.0	263.8	217.5	195.1	116.5	113.7	143.2	153.0	146.0	84.2
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°	7916.8	7916.8	7916.8	7916.8	7916.8	7916.8	7916.8	7916.8	7916.8	7916.8	7916.8
2.5°	7937.9	7838.2	7626.3	7456.5	7241.8	7018.6	6893.7	6760.4	6669.2	6603.2	6708.5
5°	7998.2	7794.7	7356.9	6941.4	6482.5	6005.3	5643.2	5306.4	5072.0	4926.1	5063.6
7.5°	8093.7	7780.7	7083.2	6373.0	5549.2	4754.9	4044.7	3599.8	3340.2	3212.5	3292.5
10°	8203.1	7758.2	6761.8	5602.5	4423.7	3423.0	2892.5	2712.9	2653.9	2630.1	2641.3
12.5°	8294.4	7710.5	6367.4	4670.7	3322.0	2703.0	2550.1	2545.8	2558.5	2561.3	2565.5
15°	8358.9	7640.3	5782.2	3699.5	2656.7	2463.0	2454.6	2479.9	2503.7	2513.6	2519.2
17.5°	8402.4	7495.8	5121.2	2924.8	2380.2	2346.6	2366.2	2398.5	2423.7	2430.8	2436.4
20°	8398.2	7283.9	4333.8	2439.2	2230.1	2230.1	2263.8	2289.0	2290.4	2282.0	2286.2
22.5°	8354.7	6993.4	3570.4	2181.0	2096.7	2120.6	2154.3	2130.4	2032.2	1967.6	1971.8
25°	8281.7	6646.7	2916.4	2016.7	1973.2	2015.3	2005.5	1825.9	1685.5	1622.4	1622.4
27.5°	8217.2	6236.9	2413.9	1873.6	1849.7	1901.7	1727.6	1564.8	1505.9	1476.4	1466.6
30°	8170.8	5794.8	2078.5	1736.1	1733.3	1695.4	1498.9	1454.0	1444.1	1420.3	1411.9
32.5°	8182.1	5347.1	1863.8	1615.4	1625.2	1451.2	1389.4	1399.2	1390.8	1365.6	1354.3
35°	8274.7	4921.9	1723.4	1505.9	1476.4	1310.8	1324.9	1343.1	1340.3	1305.2	1294.0
37.5°	8440.3	4519.1	1630.8	1414.7	1288.4	1240.6	1263.1	1291.2	1284.2	1260.3	1251.9
40°	8614.3	4140.2	1555.0	1343.1	1177.5	1192.9	1212.6	1228.0	1235.0	1242.0	1236.4
42.5°	8784.2	3744.4	1462.4	1270.1	1131.2	1148.0	1156.4	1171.9	1209.8	1236.4	1235.0
45°	8885.2	3372.5	1367.0	1166.3	1094.7	1104.5	1098.9	1129.8	1176.1	1219.6	1221.0
47.5°	8997.5	3083.4	1291.2	1070.8	1059.6	1066.6	1049.8	1080.7	1122.8	1176.1	1181.7
50°	9133.6	2910.7	1230.8	995.0	1011.9	1011.9	1007.7	1035.7	1094.7	1156.4	1167.7
52.5°	9288.0	2877.1	1180.3	940.3	964.2	962.8	967.0	1009.1	1073.6	1134.0	1143.8
55°	9476.1	2968.3	1125.6	899.6	917.9	923.5	937.5	985.2	1040.0	1108.7	1112.9
57.5°	9695.0	3153.5	1082.1	867.3	875.7	894.0	916.4	960.0	1018.9	1094.7	1098.9
58°	9731.5	3192.8	1075.0	864.5	867.3	888.4	913.6	955.7	1014.7	1097.5	1101.7
60°	9732.9	3323.4	1059.6	851.9	835.0	870.1	898.2	940.3	1007.7	1107.3	1117.1
62.5°	9387.6	3322.0	1048.4	833.6	801.4	844.9	877.2	926.3	1000.7	1131.2	1150.8
65°	8266.3	3018.8	995.0	805.6	774.7	822.4	858.9	916.4	1020.3	1235.0	1247.7
67.5°	6465.7	2474.3	895.4	766.3	739.6	800.0	847.7	915.0	1041.4	1258.9	1267.3
70°	4274.9	1851.1	785.9	721.4	703.1	773.3	853.3	962.8	1017.5	1208.4	1185.9
72.5°	2218.8	1299.6	697.5	665.2	661.0	749.4	934.7	957.1	993.6	1136.8	1108.7
75°	1164.9	902.4	620.3	603.5	610.5	743.8	1103.1	931.9	962.8	1087.7	1141.0
77.5°	712.9	728.4	554.4	547.3	561.4	727.0	1101.7	899.6	917.9	1000.7	1059.6
80°	477.2	590.8	503.8	505.2	515.1	665.2	989.4	849.1	863.1	945.9	1006.3
82.5°	301.7	349.5	457.5	481.4	468.8	548.7	840.7	773.3	792.9	1082.1	1143.8
85°	153.0	218.9	397.2	463.1	422.4	384.5	682.1	677.9	687.7	780.3	815.4
87.5°	70.2	120.7	310.2	404.2	318.6	240.0	495.4	502.4	541.7	554.4	554.4
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)