

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: P190955

Luminaire Tested: **GLEON-AF-07-LED-E1-AFL-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190955
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-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29112.2 lumens
Efficiency: N/A
Efficacy: 128.8 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): 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

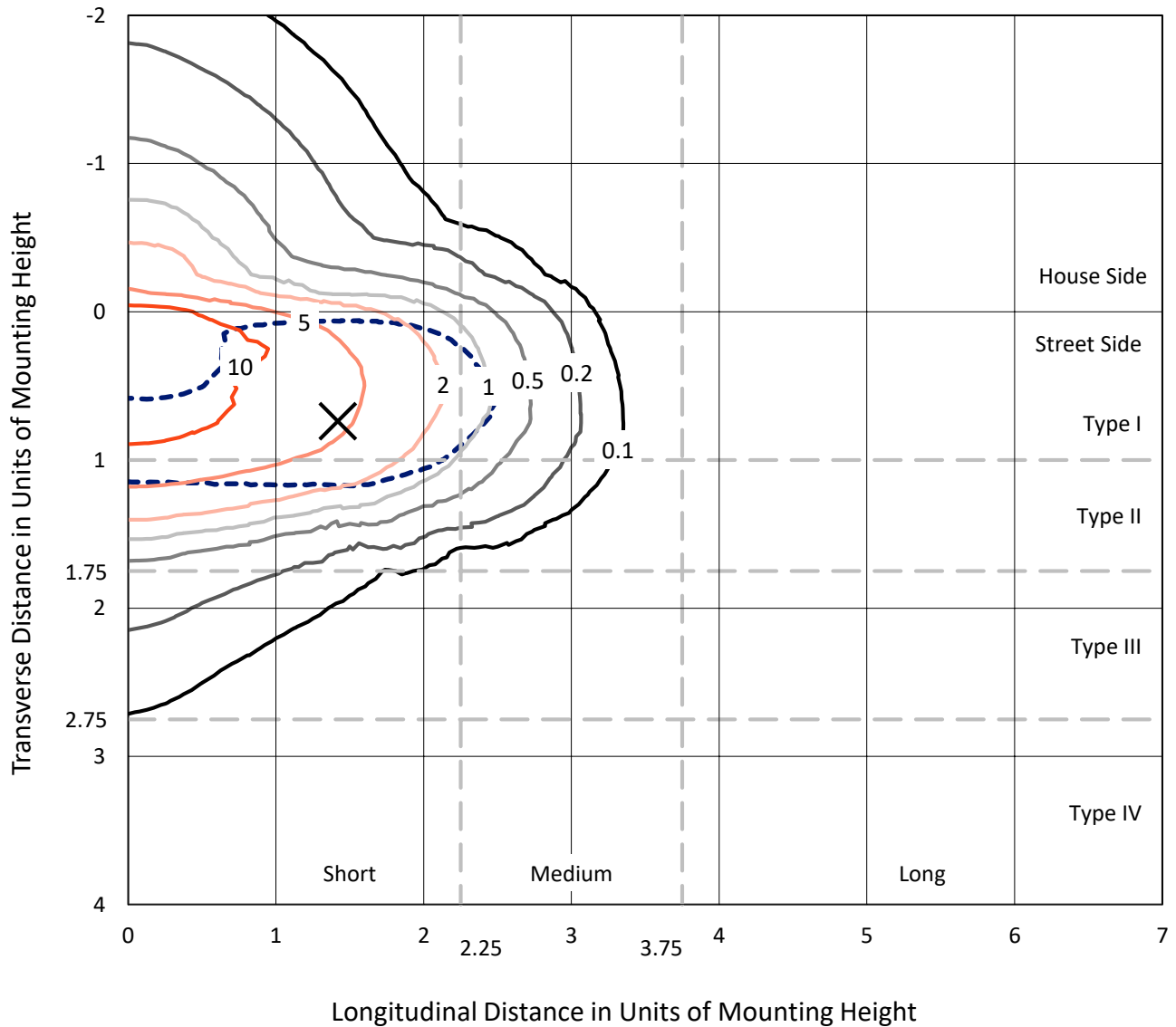


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

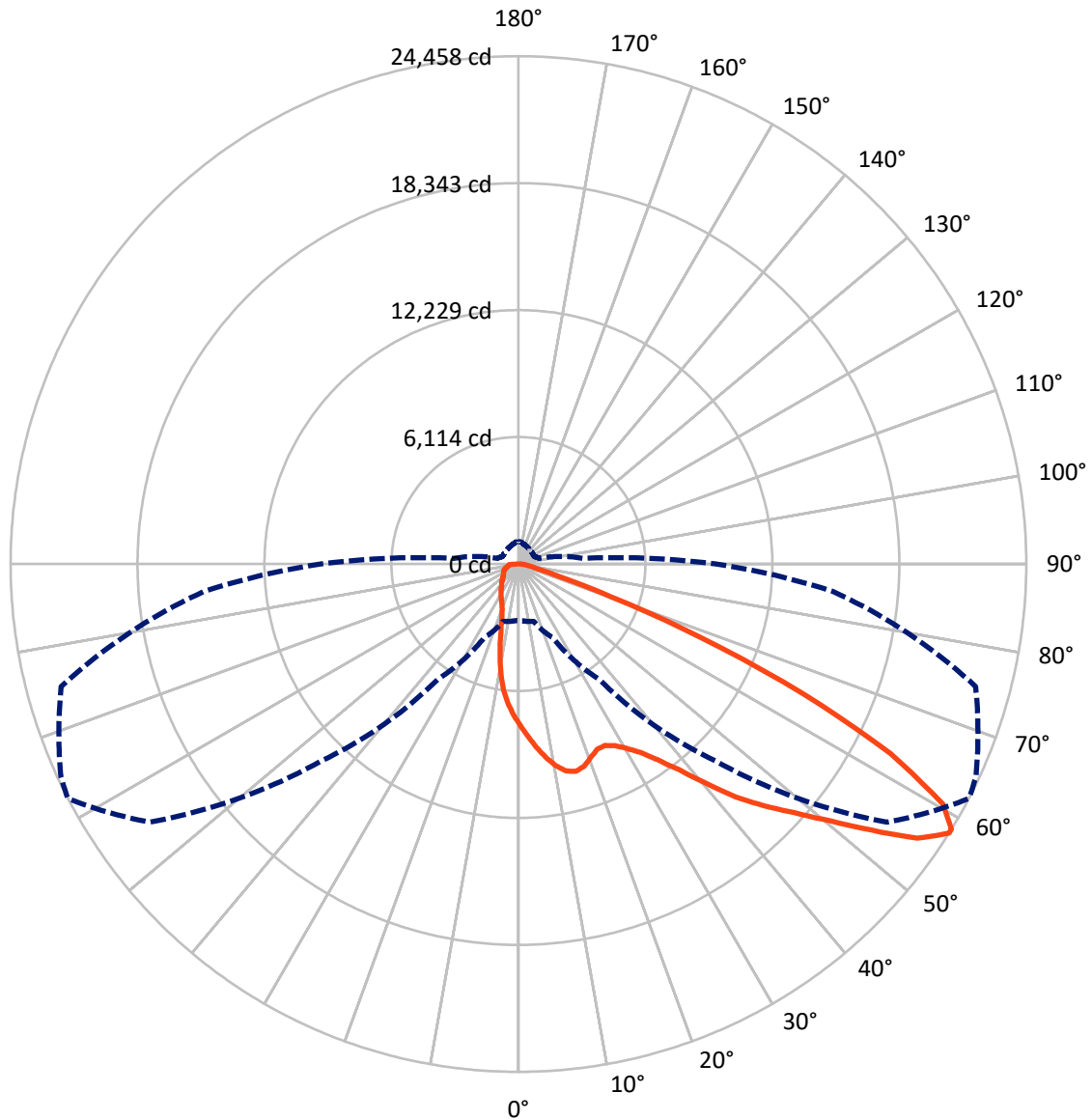


Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type II - Short - Full Cutoff

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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	4439.7	0.0	4439.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	24672.4	0.0	24672.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	29112.2	0.0	29112.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	691.6	2.4
10°-20°	1767.9	6.1
20°-30°	2857.8	9.8
30°-40°	4536.7	15.6
40°-50°	6638.2	22.8
50°-60°	6943.0	23.8
60°-70°	4101.9	14.1
70°-80°	1155.5	4.0
80°-90°	419.5	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°	29112.2	100.0
0°-180°	29112.2	100.0



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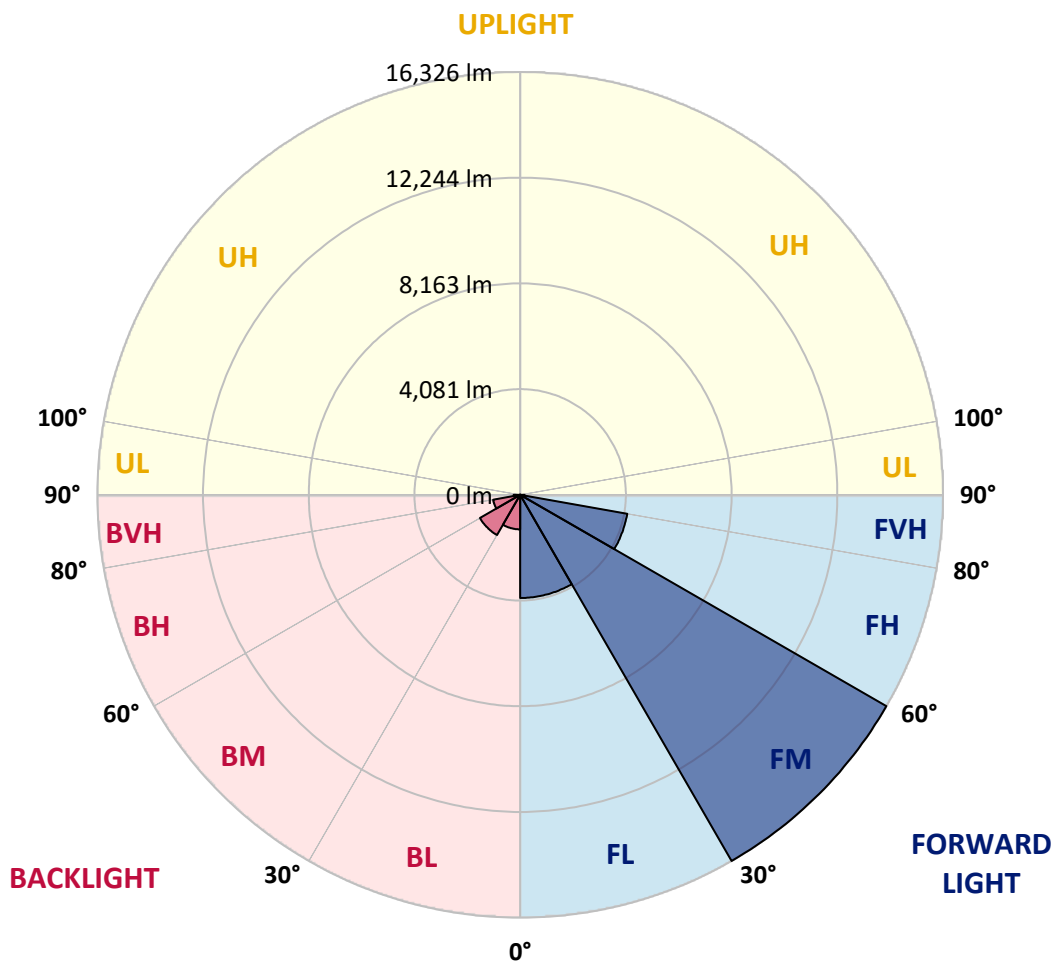
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3982.9	13.7			
FM (30°-60°)	16325.9	56.1			
FH (60°-80°)	4198.1	14.4			G2/5000
FVH (80°-90°)	165.5	0.6			G2/225
BL (0°-30°)	1334.4	4.6	B3/2500		
BM (30°-60°)	1792.0	6.2	B2/2500		
BH (60°-80°)	1059.4	3.6	B3/2500		G3/2500
BVH (80°-90°)	254.0	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°	7733.1	7733.1	7733.1	7733.1	7733.1	7733.1	7733.1	7733.1	7733.1	7733.1	7733.1
2.5°	8836.6	8765.4	8720.0	8680.4	8628.2	8517.2	8367.7	8273.2	8225.2	8062.1	7868.7
5°	9703.0	9639.9	9593.3	9539.8	9446.6	9272.5	9031.2	8839.3	8744.8	8418.5	8031.9
7.5°	9500.1	9526.1	9607.0	9748.2	9868.8	9845.6	9630.4	9386.3	9261.6	8807.8	8221.0
10°	8277.3	8322.5	8462.4	8792.8	9327.4	9875.7	10042.9	9874.3	9748.2	9193.1	8415.7
12.5°	8031.9	8030.6	8041.5	8129.2	8447.3	9219.0	10056.6	10226.6	10151.3	9560.4	8614.5
15°	8131.9	8134.7	8126.5	8163.5	8262.2	8567.9	9637.2	10362.4	10415.8	9930.5	8820.2
17.5°	8395.2	8388.3	8356.8	8356.8	8392.4	8511.7	9143.6	10236.3	10483.0	10258.2	9001.1
20°	8836.6	8805.0	8721.5	8644.7	8606.3	8670.7	8940.8	9945.6	10366.5	10544.7	9150.5
22.5°	9371.3	9346.6	9210.9	9046.4	8913.4	8911.9	9044.9	9692.0	10165.0	10814.7	9276.6
25°	10062.2	10022.4	9820.8	9557.6	9324.6	9235.5	9272.5	9679.7	10055.3	11108.1	9389.1
27.5°	10873.7	10801.0	10562.5	10182.8	9840.1	9660.4	9607.0	9903.1	10155.3	11471.4	9545.4
30°	11857.9	11774.4	11468.7	10973.8	10489.8	10195.1	10081.4	10299.3	10487.1	11914.2	9796.2
32.5°	12978.0	12857.4	12503.6	11958.1	11322.0	10872.3	10687.3	10823.0	10972.4	12447.5	10110.1
35°	14525.7	14381.8	13870.4	13117.8	12399.5	11781.2	11485.1	11583.8	11729.2	13242.6	10563.9
37.5°	15581.3	15516.8	15176.8	14469.4	13688.1	12976.6	12518.8	12576.4	12658.6	14236.4	11145.2
40°	15571.7	15597.7	15604.6	15611.5	15079.5	14398.2	13906.1	13845.7	13829.3	15327.7	11805.9
42.5°	14791.7	14898.6	15244.0	15944.5	16268.1	15955.5	15504.5	15330.4	15244.0	16613.5	12506.4
45°	13597.6	13655.2	14302.3	15670.4	16876.7	17497.7	17156.4	16608.0	16451.7	17795.3	13087.6
47.5°	12982.1	13045.2	13452.3	14943.8	16869.9	18743.8	18941.3	17896.6	17617.0	18823.3	13589.4
50°	11516.7	11648.2	12160.9	13679.8	16254.4	19316.9	20807.0	19432.0	18853.5	19824.1	14092.5
52.5°	8825.6	9028.6	9603.0	11601.6	14692.9	19033.1	22299.8	21293.6	20476.6	20860.4	14524.4
55°	5567.1	5717.9	6200.4	8193.6	11753.8	17556.7	22866.0	23307.4	22580.9	21842.0	14898.6
57.5°	3026.9	3094.0	3275.0	4523.9	7645.3	14292.7	22040.8	24453.5	24151.9	22675.4	15181.0
58°	2708.9	2754.1	2866.5	3920.7	6780.3	13400.2	21674.8	24457.6	24306.8	22797.5	15202.9
60°	2009.7	1986.4	1886.3	2237.3	3774.0	9257.5	19462.2	23478.8	23921.6	22946.9	15096.0
62.5°	1765.7	1709.5	1505.2	1481.9	1835.6	4264.8	14891.7	20111.9	21157.9	22094.2	14446.2
65°	1658.7	1598.5	1335.3	1250.3	1324.2	1804.1	8772.2	15083.6	16395.5	19508.8	12784.7
67.5°	1579.2	1501.1	1226.9	1110.4	1115.8	1192.7	3516.3	9500.1	10976.6	14812.2	9944.2
70°	1502.5	1417.5	1135.1	1000.8	969.2	943.2	1398.3	4755.5	6094.8	9356.1	6340.2
72.5°	1420.3	1336.6	1054.2	914.4	852.6	766.3	913.0	1945.2	2717.1	4426.5	2876.0
75°	1301.0	1225.6	973.3	837.6	749.8	634.7	689.6	1015.8	1218.7	1763.0	1386.0
77.5°	1154.3	1092.6	882.8	774.6	664.9	515.5	530.5	704.6	781.4	1008.9	823.9
80°	829.4	851.3	785.5	696.4	592.2	418.1	407.1	514.0	555.2	648.4	536.0
82.5°	582.6	594.9	649.8	568.9	489.4	329.0	300.2	361.9	386.6	426.4	289.3
85°	401.7	388.0	445.5	396.2	353.6	219.3	205.6	245.4	260.4	264.5	149.5
87.5°	241.3	241.3	257.7	212.5	190.6	113.8	111.0	139.8	149.5	142.6	82.2
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°	7733.1	7733.1	7733.1	7733.1	7733.1	7733.1	7733.1	7733.1	7733.1	7733.1	7733.1
2.5°	7753.7	7656.3	7449.3	7283.4	7073.7	6855.7	6733.7	6603.5	6514.4	6449.9	6552.7
5°	7812.6	7613.8	7186.1	6780.3	6332.1	5865.9	5512.3	5183.3	4954.4	4811.8	4946.1
7.5°	7905.8	7600.1	6918.7	6225.1	5420.4	4644.5	3950.8	3516.3	3262.7	3137.9	3216.1
10°	8012.7	7578.1	6604.8	5472.5	4320.9	3343.5	2825.4	2649.9	2592.3	2569.0	2580.0
12.5°	8101.8	7531.6	6219.6	4562.3	3244.8	2640.2	2490.9	2486.8	2499.1	2501.8	2505.9
15°	8164.9	7463.0	5647.9	3613.6	2595.0	2405.9	2397.7	2422.3	2445.7	2455.2	2460.7
17.5°	8207.3	7321.8	5002.3	2856.9	2325.0	2292.1	2311.3	2342.8	2367.5	2374.4	2379.8
20°	8203.2	7114.8	4233.3	2382.6	2178.3	2178.3	2211.2	2235.9	2237.3	2229.0	2233.1
22.5°	8160.8	6831.1	3487.4	2130.3	2048.0	2071.4	2104.3	2081.0	1985.0	1921.9	1926.1
25°	8089.5	6492.5	2848.6	1969.9	1927.4	1968.6	1959.0	1783.5	1646.4	1584.8	1584.8
27.5°	8026.4	6092.1	2357.9	1830.1	1806.8	1857.5	1687.6	1528.5	1470.9	1442.2	1432.5
30°	7981.2	5660.3	2030.3	1695.7	1693.0	1656.1	1464.0	1420.3	1410.6	1387.3	1379.0
32.5°	7992.1	5223.0	1820.5	1577.9	1587.4	1417.5	1357.1	1366.8	1358.5	1333.8	1322.9
35°	8082.6	4807.7	1683.5	1470.9	1442.2	1280.4	1294.1	1311.9	1309.2	1274.9	1264.0
37.5°	8244.4	4414.2	1592.9	1381.8	1258.4	1211.9	1233.8	1261.2	1254.3	1231.0	1222.8
40°	8414.4	4044.0	1518.9	1311.9	1150.2	1165.2	1184.5	1199.5	1206.4	1213.2	1207.7
42.5°	8580.2	3657.5	1428.4	1240.6	1104.9	1121.4	1129.5	1144.7	1181.7	1207.7	1206.4
45°	8678.9	3294.2	1335.3	1139.2	1069.3	1078.9	1073.4	1103.6	1148.8	1191.3	1192.7
47.5°	8788.6	3011.8	1261.2	1046.0	1035.0	1041.9	1025.4	1055.6	1096.7	1148.8	1154.3
50°	8921.6	2843.2	1202.3	971.9	988.4	988.4	984.3	1011.7	1069.3	1129.5	1140.6
52.5°	9072.3	2810.3	1152.9	918.5	941.8	940.4	944.5	985.6	1048.7	1107.7	1117.3
55°	9256.1	2899.3	1099.5	878.7	896.5	902.0	915.7	962.4	1015.8	1083.0	1087.1
57.5°	9470.0	3080.3	1056.9	847.2	855.4	873.2	895.2	937.6	995.2	1069.3	1073.4
58°	9505.6	3118.7	1050.1	844.4	847.2	867.8	892.4	933.5	991.1	1072.1	1076.1
60°	9507.0	3246.2	1035.0	832.1	815.7	850.0	877.4	918.5	984.3	1081.6	1091.2
62.5°	9169.7	3244.8	1024.1	814.3	782.8	825.2	856.8	904.8	977.4	1104.9	1124.1
65°	8074.4	2948.8	971.9	786.9	756.7	803.3	838.9	895.2	996.7	1206.4	1218.7
67.5°	6315.6	2416.8	874.6	748.5	722.4	781.4	828.0	893.9	1017.2	1229.7	1237.9
70°	4175.7	1808.2	767.7	704.6	686.8	755.3	833.5	940.4	993.9	1180.3	1158.4
72.5°	2167.3	1269.4	681.3	649.8	645.7	732.0	913.0	935.0	970.6	1110.4	1083.0
75°	1137.8	881.5	605.9	589.4	596.3	726.6	1077.5	910.2	940.4	1062.4	1114.5
77.5°	696.4	711.5	541.4	534.6	548.3	710.1	1076.1	878.7	896.5	977.4	1035.0
80°	466.1	577.1	492.1	493.5	503.1	649.8	966.5	829.4	843.1	923.9	983.0
82.5°	294.7	341.4	446.9	470.3	457.9	536.0	821.1	755.3	774.6	1056.9	1117.3
85°	149.5	213.9	388.0	452.3	412.7	375.6	666.2	662.2	671.8	762.2	796.5
87.5°	68.5	117.8	303.0	394.9	311.2	234.5	484.0	490.8	529.2	541.4	541.4
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)