

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: P191783

Luminaire Tested: **GLEON-AF-05-LED-E1-AFL-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191783
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-05-LED-E1-AFL-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33481 lumens
Efficiency: N/A
Efficacy: 104.6 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): 320
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

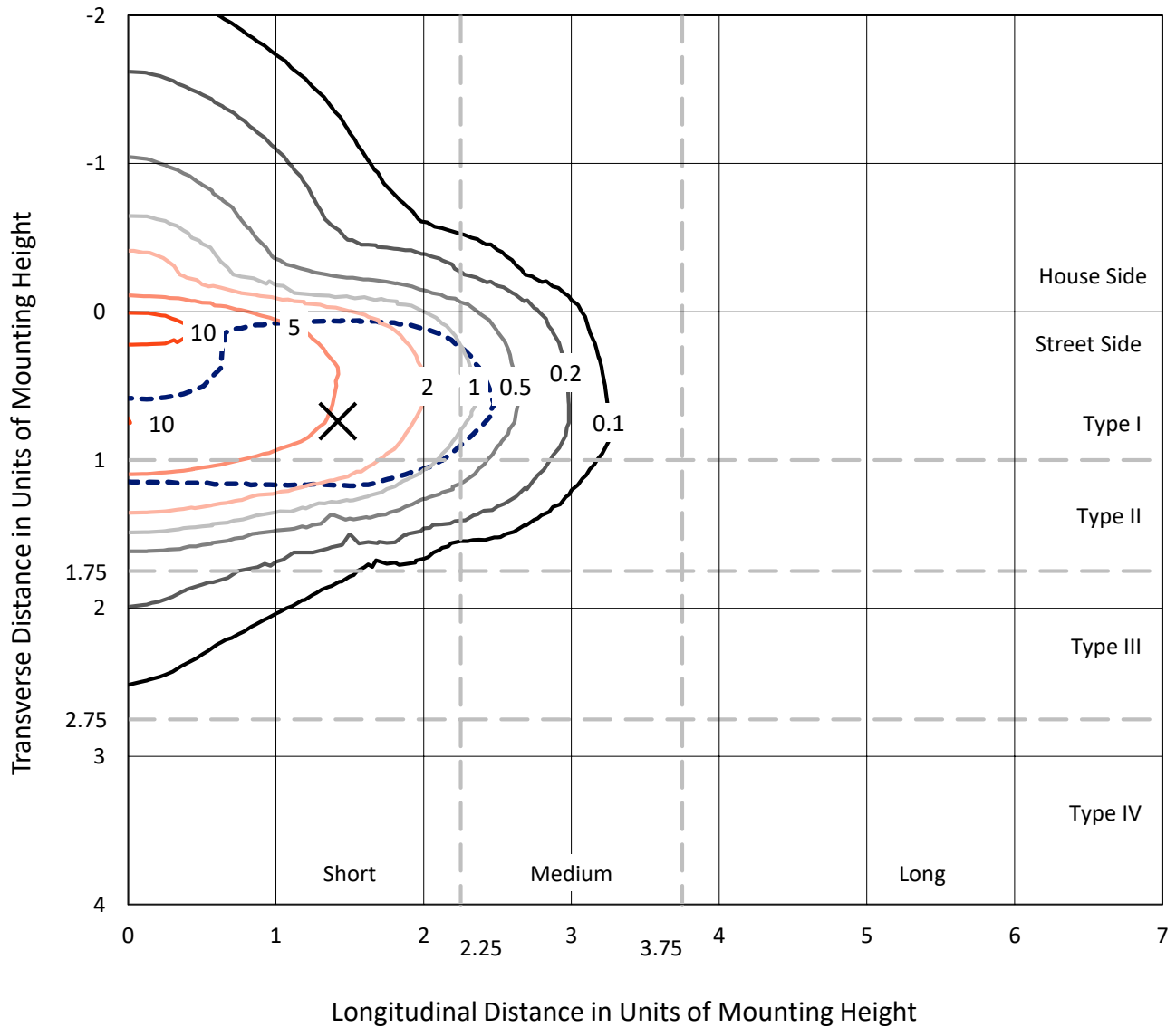


REPORT NUMBER: P191783

CATALOG NUMBER: GLEON-AF-05-LED-E1-AFL-7050-1200

Iso-Footcandle Lines of Horizontal Illumination

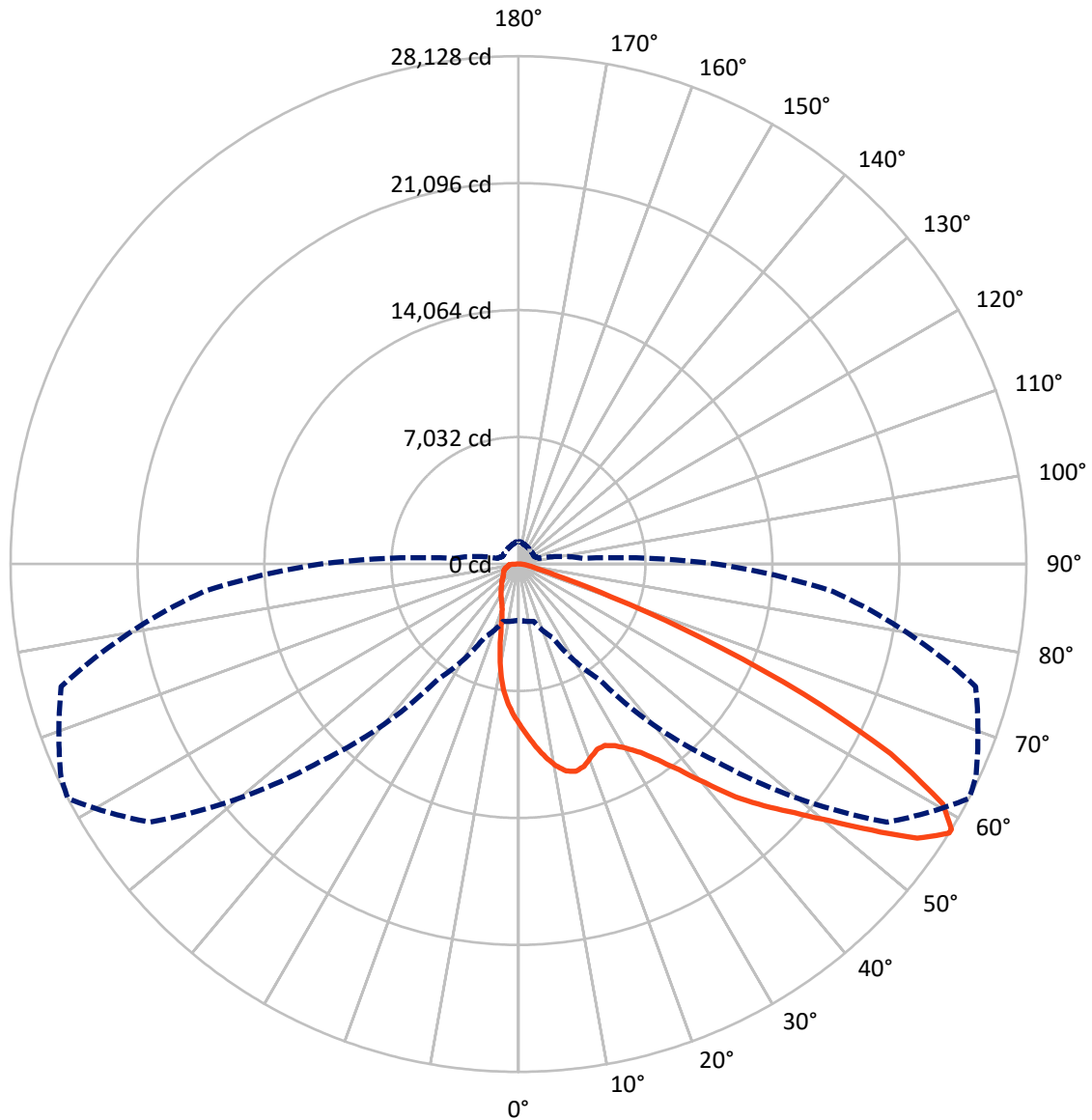
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P191783
CATALOG NUMBER: GLEON-AF-05-LED-E1-AFL-7050-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

REPORT NUMBER: P191783

CATALOG NUMBER: GLEON-AF-05-LED-E1-AFL-7050-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5106.0	0.0	5106.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	28375.0	0.0	28375.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	33481.0	0.0	33481.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	795.4	2.4
10°-20°	2033.2	6.1
20°-30°	3286.7	9.8
30°-40°	5217.6	15.6
40°-50°	7634.4	22.8
50°-60°	7984.9	23.8
60°-70°	4717.5	14.1
70°-80°	1328.9	4.0
80°-90°	482.5	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°	33481.0	100.0
0°-180°	33481.0	100.0

Coefficient of Utilization



REPORT NUMBER: P191783

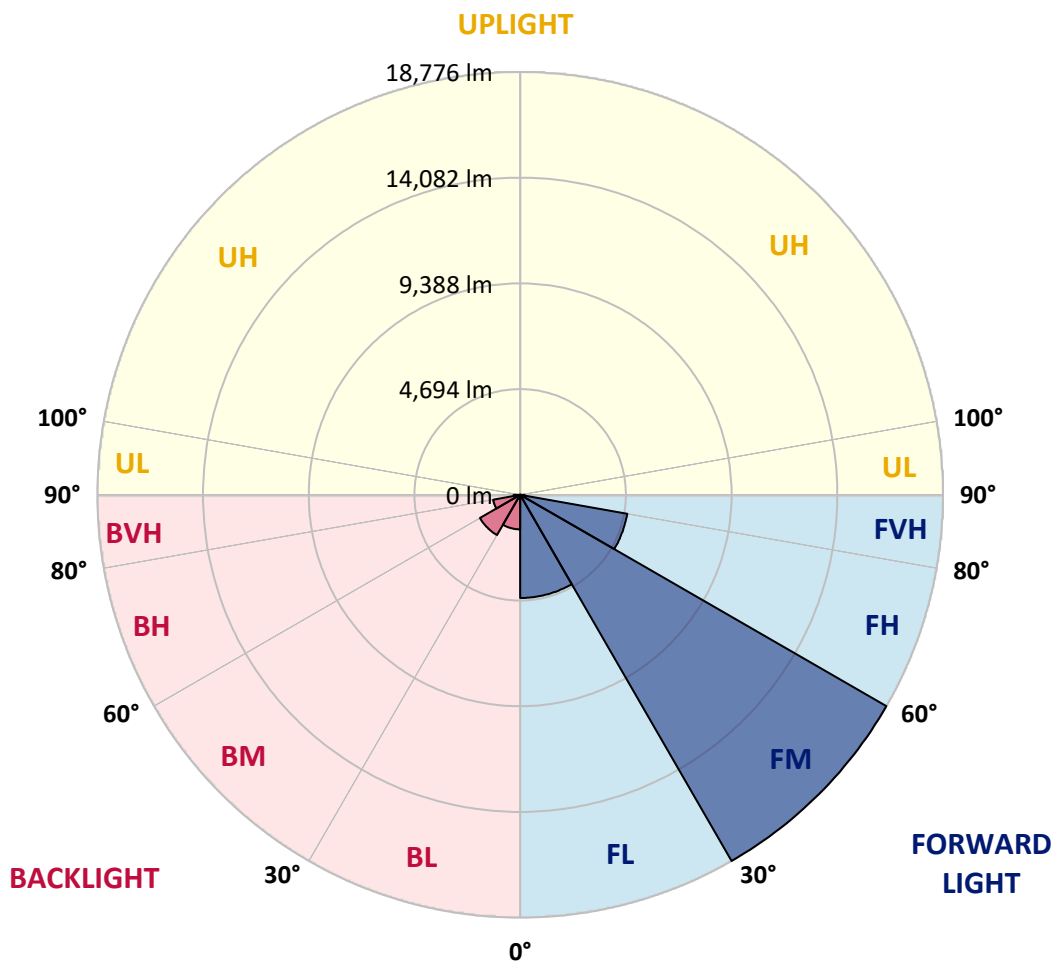
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4580.6	13.7			
FM	(30°-60°)	18776.0	56.1			
FH	(60°-80°)	4828.1	14.4			G2/5000
FVH	(80°-90°)	190.3	0.6			G2/225
BL	(0°-30°)	1534.6	4.6	B3/2500		
BM	(30°-60°)	2060.9	6.2	B2/2500		
BH	(60°-80°)	1218.3	3.6	B3/2500		G3/2500
BVH	(80°-90°)	292.1	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





REPORT NUMBER: P191783

CATALOG NUMBER: GLEON-AF-05-LED-E1-AFL-7050-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	8893.5	8893.5	8893.5	8893.5	8893.5	8893.5	8893.5	8893.5	8893.5	8893.5	8893.5
2.5°	10162.7	10080.7	10028.7	9983.0	9923.1	9795.4	9623.5	9514.7	9459.5	9271.9	9049.6
5°	11159.1	11086.6	11033.0	10971.5	10864.3	10664.1	10386.6	10165.9	10057.1	9681.8	9237.2
7.5°	10925.8	10955.7	11048.7	11211.1	11349.9	11323.1	11075.5	10794.9	10651.4	10129.6	9454.8
10°	9519.5	9571.5	9732.3	10112.3	10727.1	11357.8	11550.1	11356.2	11211.1	10572.6	9678.7
12.5°	9237.2	9235.7	9248.3	9349.2	9714.9	10602.6	11565.9	11761.4	11674.7	10995.1	9907.3
15°	9352.3	9355.5	9346.0	9388.6	9502.1	9853.7	11083.4	11917.4	11978.9	11420.8	10143.8
17.5°	9655.0	9647.2	9610.9	9610.9	9651.9	9789.0	10515.9	11772.4	12056.2	11797.6	10351.9
20°	10162.7	10126.4	10030.3	9942.0	9897.8	9971.9	10282.5	11438.2	11922.2	12127.1	10523.7
22.5°	10777.6	10749.2	10593.1	10403.9	10251.0	10249.4	10402.3	11146.5	11690.4	12437.7	10668.8
25°	11572.2	11526.5	11294.7	10992.0	10724.0	10621.5	10664.1	11132.3	11564.3	12775.1	10798.1
27.5°	12505.5	12422.0	12147.6	11710.9	11316.8	11110.2	11048.7	11389.3	11679.4	13192.9	10977.8
30°	13637.5	13541.3	13189.8	12620.6	12064.1	11725.1	11594.2	11844.9	12060.9	13702.1	11266.3
32.5°	14925.6	14786.8	14380.1	13752.6	13021.1	12503.9	12291.1	12447.2	12619.0	14315.4	11627.4
35°	16705.6	16540.0	15951.9	15086.4	14260.3	13549.2	13208.7	13322.2	13489.3	15229.9	12149.2
37.5°	17919.5	17845.4	17454.4	16640.9	15742.3	14924.0	14397.4	14463.6	14558.2	16372.9	12817.7
40°	17908.5	17938.4	17946.3	17954.2	17342.5	16558.9	15992.9	15923.6	15904.6	17627.9	13577.6
42.5°	17011.4	17134.4	17531.7	18337.3	18709.4	18349.9	17831.2	17631.0	17531.7	19106.7	14383.2
45°	15638.2	15704.4	16448.6	18022.0	19409.4	20123.6	19731.0	19100.4	18920.7	20465.7	15051.7
47.5°	14930.3	15002.8	15471.1	17186.4	19401.5	21556.7	21783.7	20582.4	20260.8	21648.2	15628.7
50°	13244.9	13396.3	13985.9	15732.8	18693.6	22215.7	23929.5	22348.2	21682.8	22799.1	16207.3
52.5°	10150.1	10383.4	11044.0	13342.7	16897.9	21889.4	25646.4	24489.2	23549.5	23991.0	16704.0
55°	6402.5	6576.0	7130.9	9423.3	13517.7	20191.4	26297.5	26805.2	25969.6	25119.8	17134.4
57.5°	3481.1	3558.4	3766.5	5202.7	8792.6	16437.5	25348.4	28123.2	27776.4	26078.4	17459.2
58°	3115.3	3167.4	3296.7	4509.0	7797.8	15411.2	24927.5	28127.9	27954.5	26218.7	17484.4
60°	2311.3	2284.5	2169.4	2573.0	4340.4	10646.7	22382.9	27002.3	27511.5	26390.5	17361.4
62.5°	2030.6	1966.0	1731.1	1704.3	2111.1	4904.8	17126.5	23130.2	24333.1	25409.9	16614.1
65°	1907.7	1838.3	1535.6	1437.9	1523.0	2074.8	10088.6	17347.2	18856.0	22436.5	14703.3
67.5°	1816.2	1726.4	1411.0	1277.0	1283.3	1371.6	4044.0	10925.8	12623.8	17035.1	11436.6
70°	1727.9	1630.2	1305.4	1150.9	1114.6	1084.7	1608.1	5469.2	7009.5	10760.2	7291.7
72.5°	1633.3	1537.2	1212.4	1051.6	980.6	881.3	1050.0	2237.2	3124.8	5090.8	3307.7
75°	1496.2	1409.5	1119.4	963.3	862.4	730.0	793.0	1168.3	1401.6	2027.5	1593.9
77.5°	1327.5	1256.5	1015.3	890.8	764.6	592.8	610.1	810.4	898.7	1160.4	947.5
80°	953.8	979.1	903.4	800.9	681.1	480.9	468.2	591.2	638.5	745.7	616.4
82.5°	670.1	684.2	747.3	654.3	562.8	378.4	345.3	416.2	444.6	490.3	332.7
85°	461.9	446.2	512.4	455.6	406.8	252.3	236.5	282.2	299.6	304.3	171.8
87.5°	277.5	277.5	296.4	244.4	219.1	130.9	127.7	160.8	171.8	164.0	94.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P191783

CATALOG NUMBER: GLEON-AF-05-LED-E1-AFL-7050-1200

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8893.5	8893.5	8893.5	8893.5	8893.5	8893.5	8893.5	8893.5	8893.5	8893.5	8893.5
2.5°	8917.2	8805.3	8567.2	8376.4	8135.2	7884.5	7744.2	7594.4	7492.0	7417.9	7536.1
5°	8985.0	8756.4	8264.5	7797.8	7282.3	6746.2	6339.5	5961.1	5697.8	5533.8	5688.3
7.5°	9092.2	8740.6	7957.1	7159.3	6233.8	5341.5	4543.7	4044.0	3752.3	3608.8	3698.7
10°	9215.2	8715.4	7596.0	6293.7	4969.4	3845.3	3249.4	3047.5	2981.3	2954.5	2967.1
12.5°	9317.6	8661.8	7153.0	5246.9	3731.8	3036.5	2864.7	2859.9	2874.1	2877.3	2882.0
15°	9390.2	8583.0	6495.6	4155.9	2984.5	2766.9	2757.5	2785.8	2812.6	2823.7	2830.0
17.5°	9439.0	8420.6	5753.0	3285.6	2673.9	2636.1	2658.1	2694.4	2722.8	2730.7	2737.0
20°	9434.3	8182.5	4868.5	2740.1	2505.2	2505.2	2543.0	2571.4	2573.0	2563.5	2568.3
22.5°	9385.4	7856.1	4010.8	2450.0	2355.4	2382.2	2420.1	2393.3	2282.9	2210.4	2215.1
25°	9303.5	7466.7	3276.2	2265.6	2216.7	2264.0	2252.9	2051.1	1893.5	1822.5	1822.5
27.5°	9230.9	7006.4	2711.7	2104.7	2077.9	2136.3	1940.8	1757.9	1691.7	1658.6	1647.5
30°	9178.9	6509.7	2334.9	1950.2	1947.1	1904.5	1683.8	1633.3	1622.3	1595.5	1586.0
32.5°	9191.5	6006.8	2093.7	1814.7	1825.7	1630.2	1560.8	1571.9	1562.4	1534.0	1521.4
35°	9295.6	5529.1	1936.1	1691.7	1658.6	1472.5	1488.3	1508.8	1505.6	1466.2	1453.6
37.5°	9481.6	5076.6	1832.0	1589.2	1447.3	1393.7	1418.9	1450.5	1442.6	1415.8	1406.3
40°	9677.1	4650.9	1746.9	1508.8	1322.8	1340.1	1362.2	1379.5	1387.4	1395.3	1389.0
42.5°	9867.9	4206.3	1642.8	1426.8	1270.7	1289.7	1299.1	1316.5	1359.0	1389.0	1387.4
45°	9981.4	3788.5	1535.6	1310.1	1229.7	1240.8	1234.5	1269.2	1321.2	1370.1	1371.6
47.5°	10107.5	3463.8	1450.5	1202.9	1190.3	1198.2	1179.3	1214.0	1261.3	1321.2	1327.5
50°	10260.4	3269.8	1382.7	1117.8	1136.7	1136.7	1132.0	1163.5	1229.7	1299.1	1311.7
52.5°	10433.9	3232.0	1325.9	1056.3	1083.1	1081.5	1086.3	1133.6	1206.1	1273.9	1284.9
55°	10645.1	3334.5	1264.4	1010.6	1031.1	1037.4	1053.2	1106.8	1168.3	1245.5	1250.2
57.5°	10891.1	3542.6	1215.6	974.3	983.8	1004.3	1029.5	1078.4	1144.6	1229.7	1234.5
58°	10932.1	3586.7	1207.7	971.2	974.3	998.0	1026.4	1073.7	1139.9	1232.9	1237.6
60°	10933.7	3733.4	1190.3	957.0	938.1	977.5	1009.0	1056.3	1132.0	1243.9	1255.0
62.5°	10545.8	3731.8	1177.7	936.5	900.2	949.1	985.4	1040.5	1124.1	1270.7	1292.8
65°	9286.1	3391.2	1117.8	905.0	870.3	923.9	964.9	1029.5	1146.2	1387.4	1401.6
67.5°	7263.4	2779.5	1005.9	860.8	830.9	898.7	952.3	1027.9	1169.8	1414.2	1423.7
70°	4802.3	2079.5	882.9	810.4	789.9	868.7	958.6	1081.5	1143.0	1357.4	1332.2
72.5°	2492.6	1459.9	783.6	747.3	742.6	841.9	1050.0	1075.2	1116.2	1277.0	1245.5
75°	1308.6	1013.7	696.9	677.9	685.8	835.6	1239.2	1046.9	1081.5	1221.9	1281.8
77.5°	800.9	818.3	622.8	614.9	630.6	816.7	1237.6	1010.6	1031.1	1124.1	1190.3
80°	536.0	663.7	566.0	567.6	578.6	747.3	1111.5	953.8	969.6	1062.6	1130.4
82.5°	339.0	392.6	514.0	540.8	526.6	616.4	944.4	868.7	890.8	1215.6	1284.9
85°	171.8	245.9	446.2	520.3	474.6	432.0	766.2	761.5	772.5	876.6	916.0
87.5°	78.8	135.6	348.4	454.1	357.9	269.6	556.5	564.4	608.6	622.8	622.8
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)