

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: P269586

Luminaire Tested: **GLEON-AF-08-LED-E1-T3-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269586
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-T3-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27313.6 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

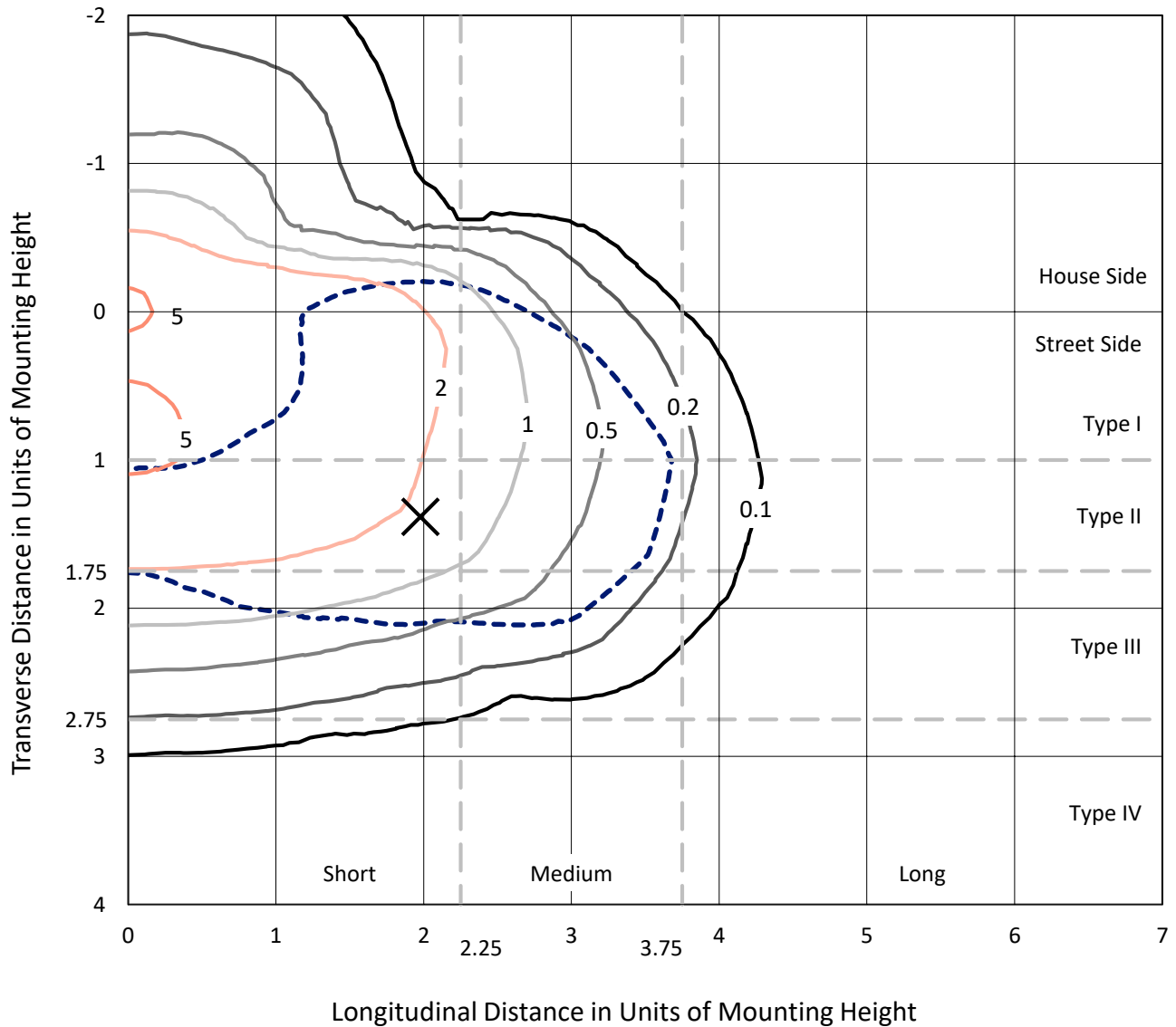
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P269586
 CATALOG NUMBER: GLEON-AF-08-LED-E1-T3-7027-600

Iso-Footcandle Lines of Horizontal Illumination

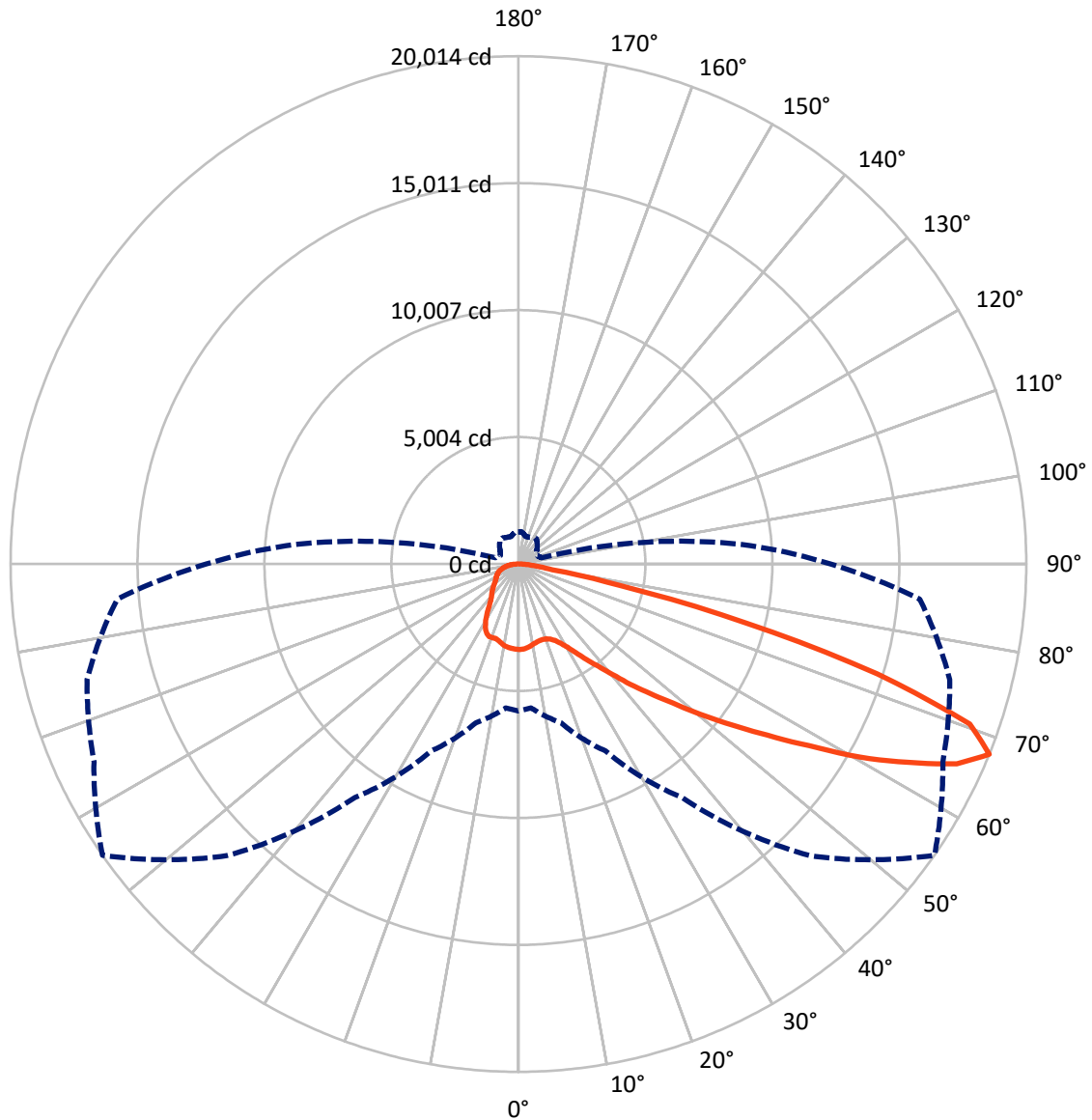
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P269586
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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P269586

CATALOG NUMBER: GLEON-AF-08-LED-E1-T3-7027-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5900.3	0.0	5900.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	21413.3	0.0	21413.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	27313.6	0.0	27313.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.4	1.2
10°-20°	890.3	3.3
20°-30°	1491.5	5.5
30°-40°	2452.6	9.0
40°-50°	4128.5	15.1
50°-60°	6497.9	23.8
60°-70°	7754.5	28.4
70°-80°	3329.9	12.2
80°-90°	454.0	1.7
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°	27313.6	100.0
0°-180°	27313.6	100.0



REPORT NUMBER: P269586

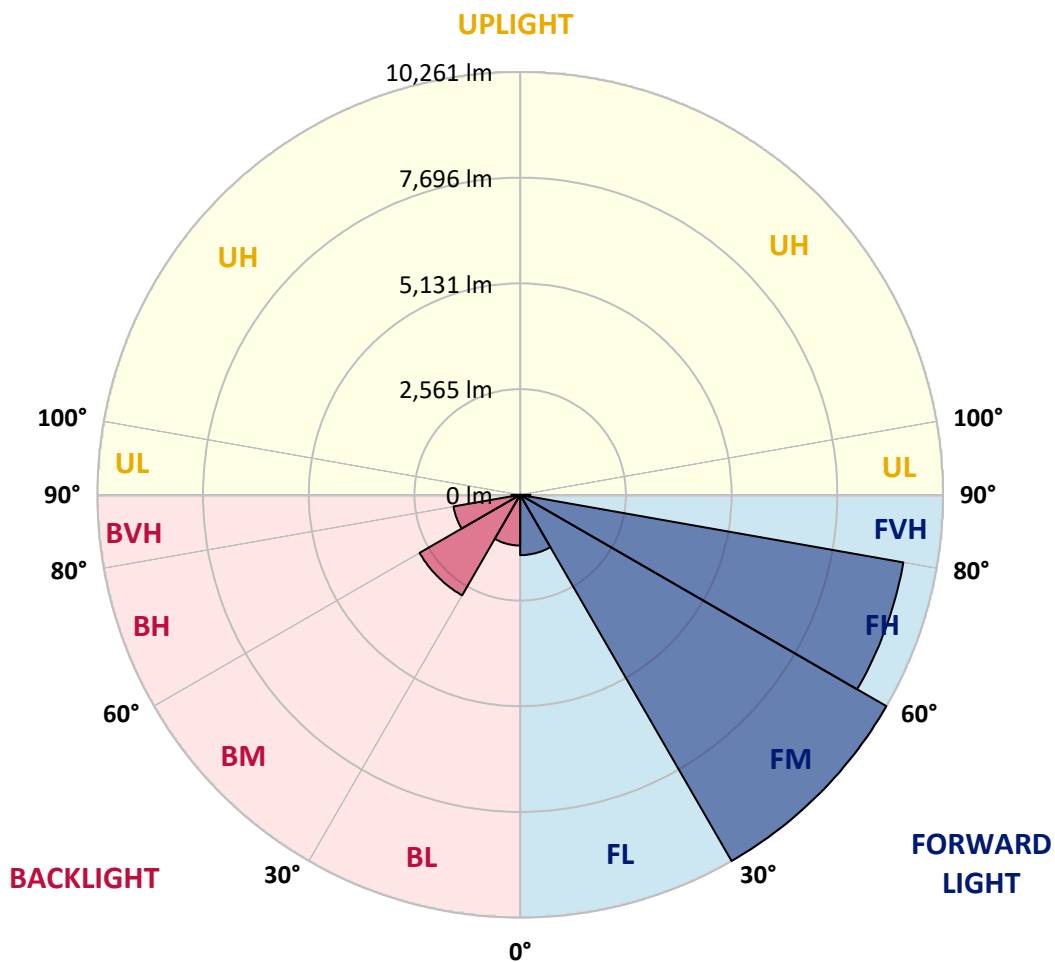
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1464.1	5.4			
FM (30°-60°)	10261.0	37.6			
FH (60°-80°)	9442.5	34.6			G4/12000
FVH (80°-90°)	245.8	0.9			G3/500
BL (0°-30°)	1232.1	4.5	B3/2500		
BM (30°-60°)	2817.9	10.3	B3/5000		
BH (60°-80°)	1642.0	6.0	B3/2500		G3/2500
BVH (80°-90°)	208.3	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





REPORT NUMBER: P269586

CATALOG NUMBER: GLEON-AF-08-LED-E1-T3-7027-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3368.0	3368.0	3368.0	3368.0	3368.0	3368.0	3368.0	3368.0	3368.0	3368.0	3368.0
2.5°	3339.0	3340.3	3343.0	3353.6	3362.7	3360.2	3361.5	3356.2	3354.9	3346.9	3354.9
5°	3296.8	3300.8	3302.1	3319.2	3329.7	3332.4	3328.5	3321.9	3313.9	3306.0	3310.1
7.5°	3200.5	3211.1	3212.3	3236.1	3253.3	3275.7	3277.0	3278.4	3274.4	3269.1	3277.0
10°	3139.8	3142.5	3141.2	3158.4	3171.5	3196.6	3211.1	3236.1	3246.7	3249.3	3254.6
12.5°	3135.9	3133.3	3129.2	3129.2	3125.4	3135.9	3162.3	3197.8	3222.9	3230.8	3237.4
15°	3178.2	3176.8	3163.7	3143.8	3118.7	3110.8	3133.3	3172.9	3205.8	3222.9	3229.5
17.5°	3273.1	3265.2	3244.0	3199.3	3145.1	3124.0	3126.6	3159.6	3197.8	3220.3	3226.9
20°	3447.2	3447.2	3402.4	3317.9	3221.6	3171.5	3147.8	3167.6	3204.4	3234.8	3244.0
22.5°	3748.0	3750.7	3675.4	3536.9	3374.7	3267.9	3208.4	3204.4	3248.0	3282.2	3292.8
25°	4174.2	4163.6	4058.1	3860.1	3613.4	3436.6	3333.8	3310.1	3346.9	3385.3	3398.4
27.5°	4670.2	4631.9	4506.5	4267.8	3948.5	3690.0	3531.6	3493.4	3529.0	3572.6	3585.8
30°	5160.9	5121.3	4972.3	4711.2	4356.2	4029.0	3802.0	3740.2	3790.2	3852.2	3860.1
32.5°	5651.6	5651.6	5485.5	5180.7	4794.2	4434.0	4162.2	4088.4	4171.5	4246.6	4263.9
35°	6238.8	6241.5	6080.4	5713.7	5298.2	4917.0	4617.4	4563.3	4688.7	4741.4	4782.3
37.5°	6960.3	6974.9	6767.8	6324.5	5869.3	5468.3	5112.2	5038.2	5163.5	5307.4	5439.2
40°	7740.1	7758.7	7530.3	6984.1	6529.1	6109.6	5724.3	5591.1	5799.5	6073.9	6244.1
42.5°	8484.1	8579.2	8358.8	7796.7	7307.4	6873.3	6482.9	6288.9	6550.1	6964.4	7112.2
45°	9559.4	9627.9	9244.1	8734.8	8274.4	7788.9	7271.8	7067.2	7432.8	7955.1	7985.6
47.5°	10275.7	10224.2	10028.9	9712.4	9420.9	8967.1	8188.7	7964.4	8449.8	9064.6	8894.5
50°	10657.0	10672.9	10646.4	10664.9	10675.5	10390.4	9312.6	9005.2	9584.5	10327.2	9935.3
52.5°	11013.2	10907.6	10994.7	11427.3	11949.9	11844.3	10535.6	10215.0	10800.9	11728.2	11035.6
55°	11005.2	10844.2	11127.9	11891.9	13025.1	13146.4	11909.0	11539.5	12087.1	13230.9	12201.9
57.5°	10616.1	10624.1	11060.7	12060.6	13774.4	14370.6	13502.7	12948.6	13451.2	14753.4	13266.4
60°	10080.5	10153.1	10782.4	12032.9	14374.7	15374.6	15457.8	14467.1	14787.5	16137.2	14147.8
62.5°	9216.3	9292.8	10161.0	11745.3	14283.6	16341.6	17225.5	16190.0	16184.8	16976.2	14406.3
65°	7853.5	7831.2	8742.8	10670.2	13519.9	17056.7	18981.5	17679.5	17237.4	16989.5	13886.4
67.5°	5791.6	5691.3	6473.6	8126.6	11237.4	16255.9	20014.4	18455.0	17596.3	15872.1	12298.2
70°	3005.3	2904.9	3538.2	4745.3	7390.4	12687.3	18870.7	18054.0	16803.4	13304.7	9634.5
72.5°	1284.9	1267.8	1525.1	2081.8	3575.3	7318.0	14796.8	15626.6	14418.2	9912.9	6624.0
75°	864.1	858.8	955.2	1134.6	1608.1	2969.6	9259.9	11092.4	10548.7	6146.5	3725.6
77.5°	678.1	671.6	728.3	815.3	1042.3	1171.5	4109.4	5955.1	5511.9	2675.4	1630.7
80°	530.3	525.1	560.7	608.2	749.4	738.8	1352.3	2369.4	1833.8	1025.1	792.8
82.5°	418.3	418.3	447.3	448.6	531.6	503.9	705.8	1043.6	915.6	597.6	485.4
85°	382.6	382.6	413.0	335.1	346.9	317.9	438.1	618.8	580.5	245.3	211.1
87.5°	192.5	187.3	346.9	296.8	188.6	168.9	213.7	299.4	322.0	135.9	105.6
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: P269586

CATALOG NUMBER: GLEON-AF-08-LED-E1-T3-7027-600

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3368.0	3368.0	3368.0	3368.0	3368.0	3368.0	3368.0	3368.0	3368.0	3368.0
2.5°	3352.2	3350.9	3353.6	3354.9	3365.4	3380.0	3386.5	3395.8	3401.1	3398.4
5°	3312.7	3315.4	3325.9	3333.8	3352.2	3376.0	3389.1	3399.7	3409.0	3405.0
7.5°	3279.7	3286.3	3302.1	3308.6	3319.2	3325.9	3324.5	3328.5	3336.5	3327.2
10°	3261.1	3269.1	3281.0	3271.7	3246.7	3211.1	3178.2	3161.0	3166.3	3159.6
12.5°	3242.7	3253.3	3244.0	3200.5	3130.7	3084.4	3059.4	3062.1	3073.9	3076.5
15°	3232.2	3236.1	3196.6	3114.8	3043.5	3036.9	3050.1	3047.5	3048.8	3048.8
17.5°	3232.2	3221.6	3147.8	3065.9	3035.6	3023.8	2982.8	2931.3	2909.0	2901.0
20°	3249.3	3221.6	3131.9	3077.9	3011.8	2910.2	2802.2	2707.1	2664.9	2653.1
22.5°	3300.8	3253.3	3176.8	3083.2	2895.7	2725.5	2554.2	2440.7	2364.1	2351.0
25°	3405.0	3352.2	3265.2	3013.2	2711.1	2468.4	2273.2	2146.4	2070.0	2059.4
27.5°	3587.0	3552.7	3312.7	2858.9	2465.7	2205.8	2025.0	1927.5	1870.7	1866.8
30°	3861.5	3844.3	3289.0	2630.5	2163.6	1951.2	1864.2	1807.4	1765.2	1763.8
32.5°	4299.5	4160.9	3211.1	2352.2	1887.9	1770.5	1734.8	1700.5	1667.6	1667.6
35°	4862.7	4416.8	3063.3	2054.1	1720.3	1670.2	1625.4	1571.2	1527.7	1525.1
37.5°	5525.0	4575.2	2798.1	1813.9	1641.2	1602.8	1536.9	1456.4	1379.9	1366.7
40°	6194.0	4622.7	2424.9	1666.3	1591.0	1535.7	1455.2	1360.2	1286.3	1282.3
42.5°	6807.4	4531.7	2029.0	1564.7	1541.0	1467.0	1382.6	1298.1	1240.1	1238.9
45°	7321.8	4295.5	1696.5	1468.3	1488.1	1404.9	1329.9	1261.2	1216.3	1207.1
47.5°	7806.0	3961.7	1463.1	1366.7	1435.3	1370.8	1307.5	1242.7	1199.1	1192.6
50°	8368.2	3601.6	1299.5	1267.8	1389.1	1358.9	1325.9	1258.5	1186.0	1178.0
52.5°	9048.7	3290.2	1171.5	1180.7	1353.6	1374.6	1373.4	1303.4	1176.8	1166.2
55°	9808.8	2944.6	1075.2	1109.4	1339.1	1403.7	1385.2	1345.7	1184.7	1168.9
57.5°	10556.7	2540.9	1007.9	1055.4	1318.0	1401.0	1328.6	1271.8	1203.2	1180.7
60°	11117.5	1998.6	956.4	1007.9	1271.8	1357.5	1266.5	1191.3	1199.1	1182.1
62.5°	11154.3	1544.8	894.4	967.0	1201.8	1314.0	1225.6	1155.7	1216.3	1200.6
65°	10498.8	1167.5	835.1	918.2	1126.7	1286.3	1186.0	1135.8	1252.0	1234.8
67.5°	8839.1	939.3	784.9	868.1	1051.5	1228.3	1150.4	1117.4	1283.7	1253.2
70°	6381.3	800.7	736.2	807.3	984.2	1162.2	1118.7	1084.4	1197.9	1150.4
72.5°	3928.7	693.9	680.7	726.9	932.7	1093.6	1071.3	1022.5	1079.1	1040.9
75°	1961.8	601.5	618.8	647.8	860.1	1015.9	992.1	943.3	951.1	943.3
77.5°	939.3	514.5	546.2	568.5	766.6	927.4	902.3	852.2	843.0	844.3
80°	594.9	430.1	460.4	476.2	684.7	824.6	799.5	749.4	854.8	792.8
82.5°	372.1	349.6	357.5	386.5	596.4	717.7	684.7	639.9	770.4	609.5
85°	205.8	244.1	254.6	279.7	459.2	600.2	567.3	510.5	457.7	450.0
87.5°	122.7	145.2	149.1	167.5	308.7	434.1	383.8	364.2	302.1	300.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)