

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: P194003

Luminaire Tested: **GLEON-AF-05-LED-E1-T3-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194003
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-05-LED-E1-T3-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26636 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

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

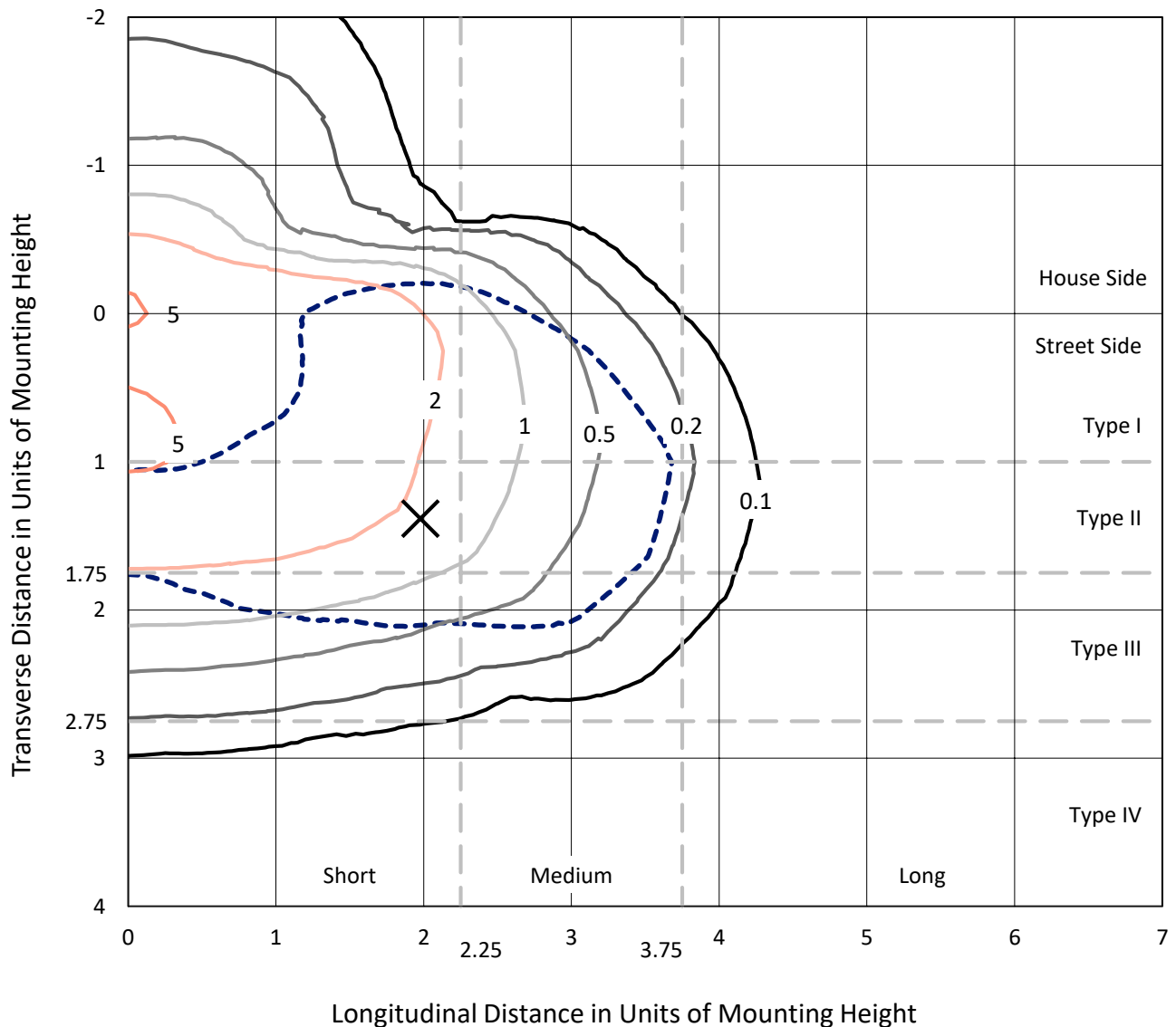


REPORT NUMBER: P194003

CATALOG NUMBER: GLEON-AF-05-LED-E1-T3-8030-1200

Iso-Footcandle Lines of Horizontal Illumination

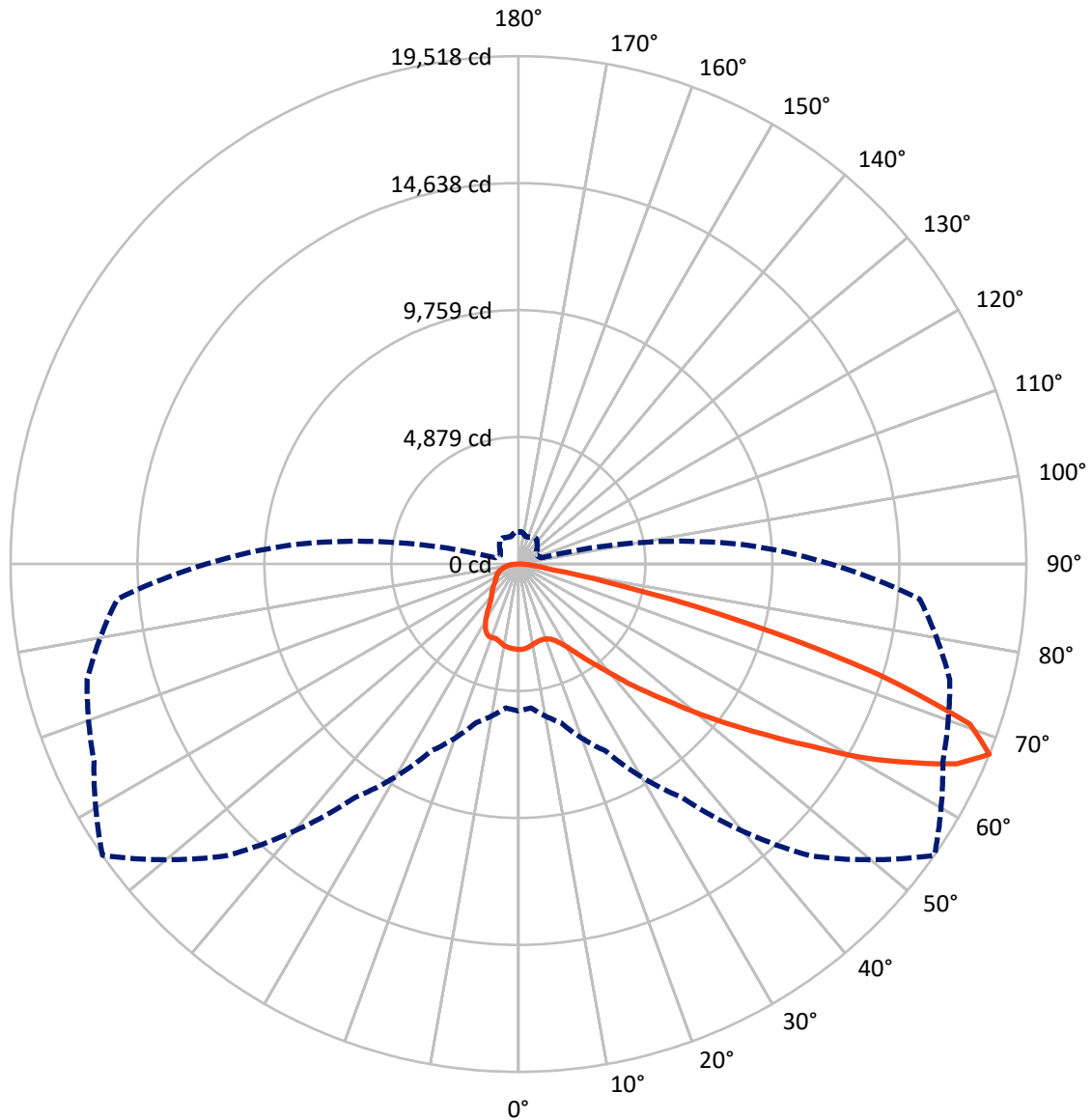
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P194003
CATALOG NUMBER: GLEON-AF-05-LED-E1-T3-8030-1200

Luminous Intensity Polar Plot



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

REPORT NUMBER: P194003

CATALOG NUMBER: GLEON-AF-05-LED-E1-T3-8030-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5753.9	0.0	5753.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	20882.1	0.0	20882.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	26636.0	0.0	26636.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.6	1.2
10°-20°	868.3	3.3
20°-30°	1454.5	5.5
30°-40°	2391.7	9.0
40°-50°	4026.0	15.1
50°-60°	6336.7	23.8
60°-70°	7562.2	28.4
70°-80°	3247.3	12.2
80°-90°	442.7	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°	26636.0	100.0
0°-180°	26636.0	100.0



REPORT NUMBER: P194003

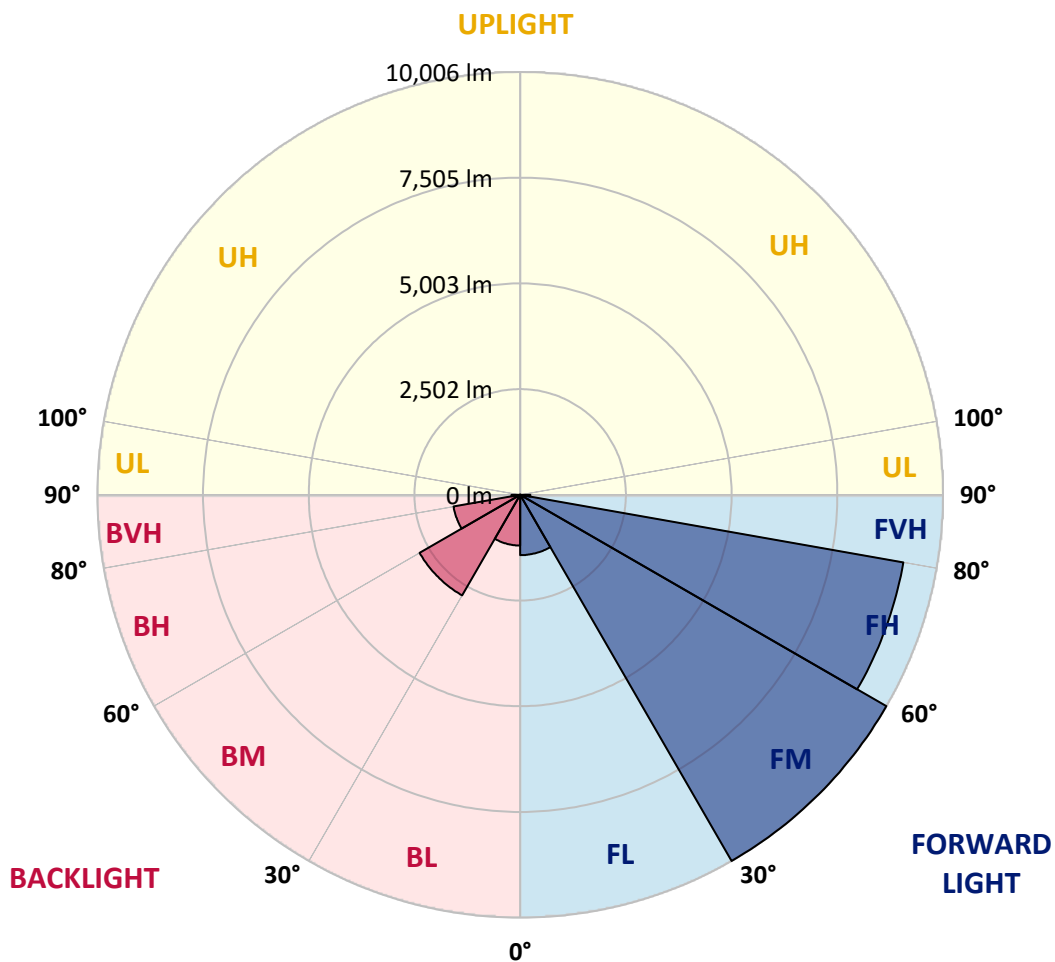
CATALOG NUMBER: GLEON-AF-05-LED-E1-T3-8030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1427.8	5.4			
FM	(30°-60°)	10006.5	37.6			
FH	(60°-80°)	9208.2	34.6			G4/12000
FVH	(80°-90°)	239.7	0.9			G3/500
BL	(0°-30°)	1201.5	4.5	B3/2500		
BM	(30°-60°)	2748.0	10.3	B3/5000		
BH	(60°-80°)	1601.3	6.0	B3/2500		G3/2500
BVH	(80°-90°)	203.1	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: P194003

CATALOG NUMBER: GLEON-AF-05-LED-E1-T3-8030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5
2.5°	3256.2	3257.5	3260.1	3270.4	3279.4	3276.8	3278.1	3272.9	3271.6	3263.9	3271.6
5°	3215.0	3218.9	3220.2	3236.9	3247.2	3249.8	3245.9	3239.5	3231.8	3224.0	3227.9
7.5°	3121.1	3131.4	3132.7	3155.9	3172.6	3194.5	3195.7	3197.0	3193.2	3188.0	3195.7
10°	3061.9	3064.5	3063.2	3080.0	3092.8	3117.3	3131.4	3155.9	3166.1	3168.7	3173.9
12.5°	3058.1	3055.5	3051.6	3051.6	3047.8	3058.1	3083.8	3118.5	3143.0	3150.7	3157.1
15°	3099.2	3098.0	3085.1	3065.8	3041.4	3033.6	3055.5	3094.1	3126.3	3143.0	3149.4
17.5°	3191.9	3184.2	3163.6	3119.8	3067.1	3046.5	3049.1	3081.2	3118.5	3140.4	3146.9
20°	3361.7	3361.7	3318.0	3235.6	3141.7	3092.8	3069.7	3089.0	3125.0	3154.6	3163.6
22.5°	3655.0	3657.6	3584.3	3449.2	3290.9	3186.7	3128.8	3125.0	3167.4	3200.9	3211.2
25°	4070.6	4060.3	3957.4	3764.4	3523.8	3351.4	3251.1	3227.9	3263.9	3301.2	3314.1
27.5°	4554.3	4517.0	4394.8	4161.9	3850.6	3598.4	3444.0	3406.7	3441.5	3483.9	3496.8
30°	5032.9	4994.3	4848.9	4594.2	4248.1	3929.1	3707.8	3647.3	3696.2	3756.7	3764.4
32.5°	5511.5	5511.5	5349.4	5052.2	4675.2	4324.0	4059.0	3987.0	4068.0	4141.3	4158.1
35°	6084.0	6086.6	5929.6	5572.0	5166.7	4794.9	4502.9	4450.1	4572.3	4623.8	4663.7
37.5°	6787.7	6801.9	6599.9	6167.6	5723.8	5332.7	4985.3	4913.3	5035.5	5175.7	5304.4
40°	7548.1	7566.1	7343.5	6810.9	6367.0	5957.9	5582.3	5452.3	5655.6	5923.2	6089.1
42.5°	8273.7	8366.3	8151.5	7603.4	7126.1	6702.8	6322.0	6132.9	6387.6	6791.6	6935.7
45°	9322.2	9389.1	9014.7	8518.1	8069.1	7595.7	7091.4	6891.9	7248.3	7757.8	7787.4
47.5°	10020.8	9970.6	9780.2	9471.4	9187.1	8744.5	7985.5	7766.8	8240.2	8839.7	8673.8
50°	10392.6	10408.0	10382.3	10400.3	10410.6	10132.7	9081.6	8781.9	9346.6	10071.0	9688.9
52.5°	10739.9	10637.0	10721.9	11143.9	11653.4	11550.5	10274.2	9961.6	10532.8	11437.2	10761.8
55°	10732.2	10575.3	10851.9	11596.8	12701.9	12820.3	11613.5	11253.3	11787.2	12902.6	11899.1
57.5°	10352.7	10360.4	10786.3	11761.5	13432.7	14014.2	13167.6	12627.3	13117.5	14387.3	12937.3
60°	9830.4	9901.1	10514.8	11734.4	14018.0	14993.2	15074.3	14108.1	14420.7	15736.8	13796.7
62.5°	8987.7	9062.3	9908.8	11454.0	13929.3	15936.2	16798.2	15788.3	15783.1	16555.1	14048.9
65°	7658.7	7636.8	8525.8	10405.5	13184.4	16633.5	18510.6	17240.8	16809.8	16567.9	13542.0
67.5°	5647.9	5550.1	6313.0	7925.0	10958.7	15852.6	19517.9	17997.3	17159.7	15478.2	11993.0
70°	2930.7	2832.9	3450.5	4627.6	7207.1	12372.6	18402.5	17606.2	16386.5	12974.6	9395.5
72.5°	1253.1	1236.4	1487.2	2030.1	3486.5	7136.4	14429.7	15238.9	14060.5	9667.0	6459.7
75°	842.7	837.5	931.4	1106.4	1568.3	2896.0	9030.2	10817.1	10287.1	5993.9	3633.2
77.5°	661.3	654.8	710.2	795.1	1016.4	1142.4	4007.5	5807.4	5375.1	2609.1	1590.2
80°	517.2	512.0	546.8	593.1	730.7	720.5	1318.7	2310.6	1788.3	999.6	773.2
82.5°	407.8	407.8	436.1	437.4	518.5	491.5	688.3	1017.6	892.9	582.8	473.4
85°	373.1	373.1	402.7	326.8	338.4	310.1	427.1	603.4	566.1	239.3	205.8
87.5°	187.8	182.7	338.4	289.5	184.0	164.7	208.4	292.0	313.9	132.5	102.9
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: P194003

CATALOG NUMBER: GLEON-AF-05-LED-E1-T3-8030-1200

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5	3284.5
2.5°	3269.1	3267.8	3270.4	3271.6	3281.9	3296.1	3302.5	3311.5	3316.7	3314.1
5°	3230.5	3233.0	3243.3	3251.1	3269.1	3292.2	3305.1	3315.4	3324.4	3320.5
7.5°	3198.3	3204.7	3220.2	3226.6	3236.9	3243.3	3242.1	3245.9	3253.6	3244.6
10°	3180.3	3188.0	3199.6	3190.6	3166.1	3131.4	3099.2	3082.5	3087.7	3081.2
12.5°	3162.3	3172.6	3163.6	3121.1	3052.9	3007.9	2983.5	2986.0	2997.6	3000.2
15°	3152.0	3155.9	3117.3	3037.5	2968.0	2961.6	2974.5	2971.9	2973.2	2973.2
17.5°	3152.0	3141.7	3069.7	2989.9	2960.3	2948.7	2908.8	2858.7	2836.8	2829.1
20°	3168.7	3141.7	3054.2	3001.5	2937.1	2838.1	2732.6	2640.0	2598.8	2587.2
22.5°	3218.9	3172.6	3098.0	3006.6	2823.9	2658.0	2490.7	2380.1	2305.5	2292.6
25°	3320.5	3269.1	3184.2	2938.4	2643.8	2407.1	2216.7	2093.2	2018.6	2008.3
27.5°	3498.1	3464.6	3230.5	2787.9	2404.5	2151.1	1974.8	1879.6	1824.3	1820.4
30°	3765.7	3748.9	3207.3	2565.3	2109.9	1902.8	1817.9	1762.5	1721.4	1720.1
32.5°	4192.8	4057.7	3131.4	2293.9	1841.0	1726.5	1691.8	1658.3	1626.2	1626.2
35°	4742.1	4307.3	2987.3	2003.1	1677.6	1628.7	1585.0	1532.3	1489.8	1487.2
37.5°	5388.0	4461.7	2728.7	1769.0	1600.4	1563.1	1498.8	1420.3	1345.7	1332.8
40°	6040.3	4508.0	2364.6	1624.9	1551.6	1497.5	1419.0	1326.4	1254.4	1250.5
42.5°	6638.5	4419.2	1978.7	1525.8	1502.7	1430.6	1348.3	1265.9	1209.3	1208.1
45°	7140.2	4188.9	1654.5	1431.9	1451.2	1370.2	1296.8	1229.9	1186.2	1177.2
47.5°	7612.4	3863.4	1426.8	1332.8	1399.7	1336.7	1275.0	1211.9	1169.5	1163.0
50°	8160.5	3512.2	1267.2	1236.4	1354.7	1325.1	1293.0	1227.3	1156.6	1148.9
52.5°	8824.3	3208.6	1142.4	1151.4	1320.0	1340.6	1339.3	1271.1	1147.6	1137.3
55°	9565.3	2871.5	1048.5	1082.0	1305.8	1368.9	1350.9	1312.3	1155.3	1139.9
57.5°	10294.8	2477.9	982.9	1029.2	1285.2	1366.3	1295.5	1240.2	1173.3	1151.4
60°	10841.6	1949.1	932.7	982.9	1240.2	1323.8	1235.1	1161.7	1169.5	1152.7
62.5°	10877.6	1506.5	872.3	943.0	1172.0	1281.4	1195.2	1127.0	1186.2	1170.7
65°	10238.2	1138.6	814.4	895.4	1098.7	1254.4	1156.6	1107.7	1220.9	1204.2
67.5°	8619.7	916.0	765.5	846.5	1025.4	1197.8	1121.9	1089.7	1251.8	1222.2
70°	6222.9	780.9	717.9	787.4	959.8	1133.4	1091.0	1057.5	1168.2	1121.9
72.5°	3831.3	676.7	663.8	708.9	909.6	1066.5	1044.7	997.1	1052.4	1015.1
75°	1913.1	586.7	603.4	631.7	838.8	990.6	967.5	919.9	927.6	919.9
77.5°	916.0	501.7	532.6	554.5	747.5	904.4	880.0	831.1	822.1	823.4
80°	580.2	419.4	449.0	464.4	667.7	804.1	779.6	730.7	833.7	773.2
82.5°	362.8	340.9	348.6	377.0	581.5	699.9	667.7	624.0	751.3	594.4
85°	200.7	238.0	248.3	272.7	447.7	585.4	553.2	497.9	446.4	438.7
87.5°	119.6	141.5	145.4	163.4	301.0	423.3	374.4	355.1	294.6	293.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)