

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: P193976

Luminaire Tested: **GLEON-AF-08-LED-E1-T3-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193976
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-T3-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25653 lumens
Efficiency: N/A
Efficacy: 99.8 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

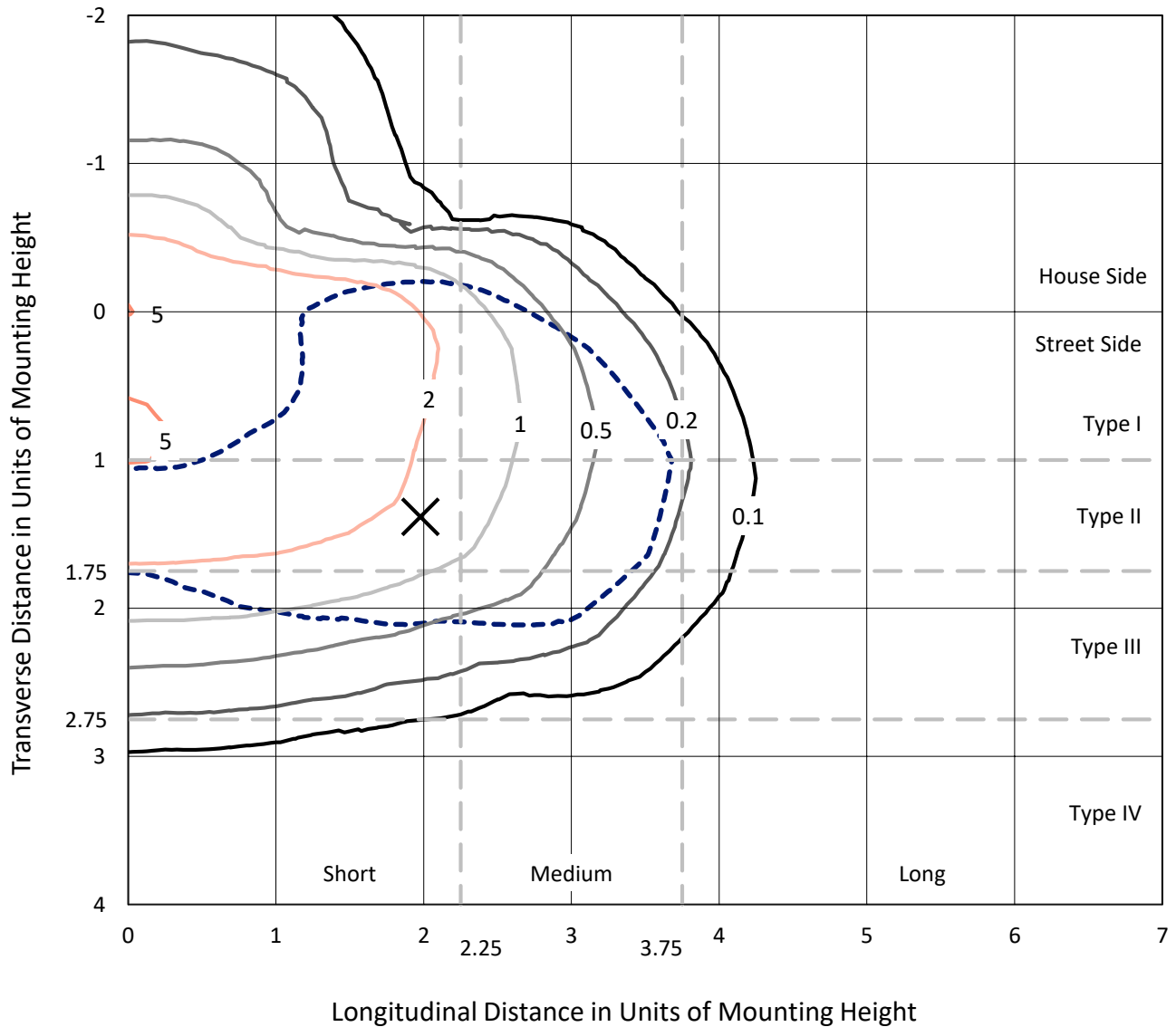
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P193976
 CATALOG NUMBER: GLEON-AF-08-LED-E1-T3-8030-600

Iso-Footcandle Lines of Horizontal Illumination

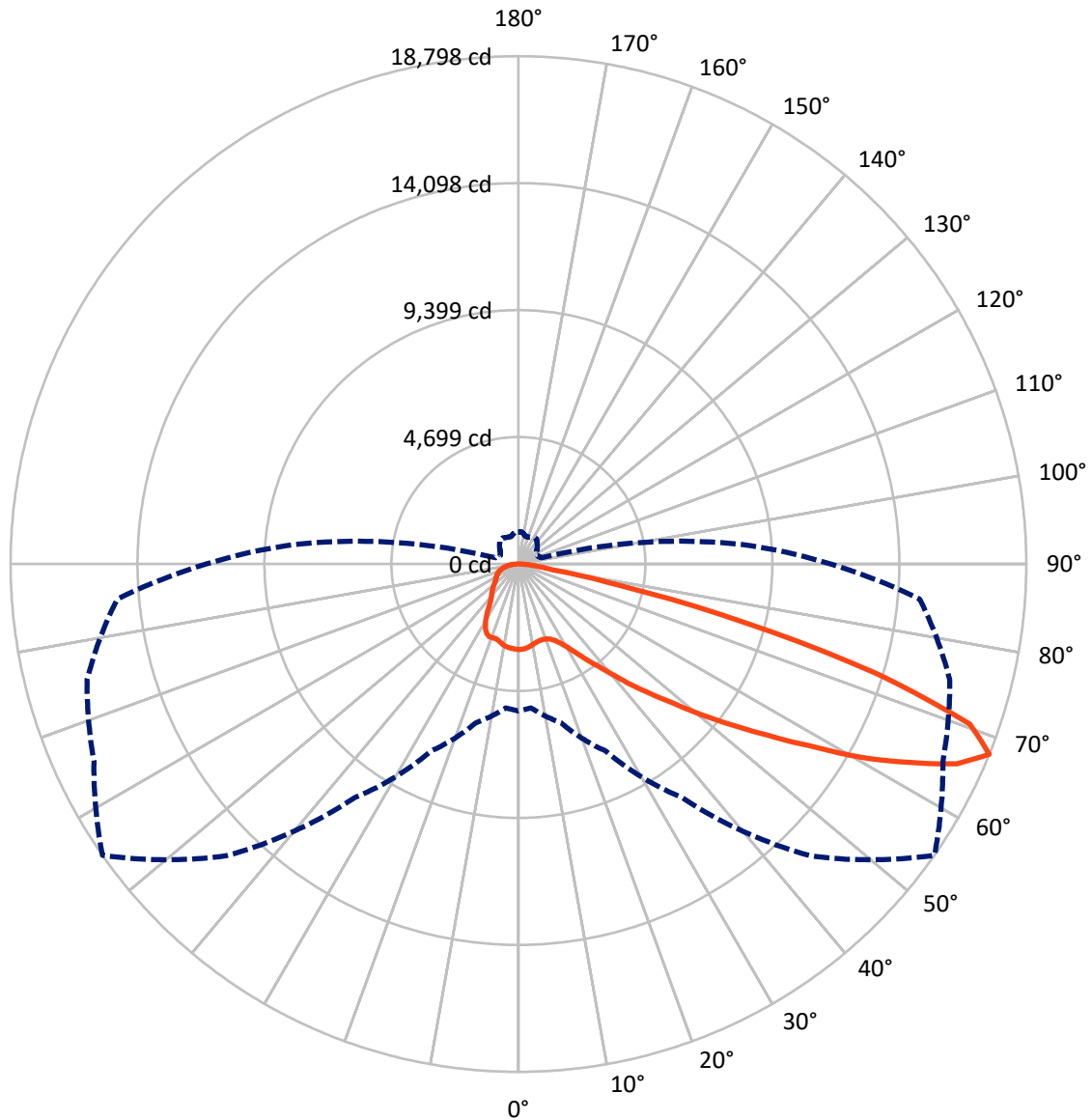
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P193976
CATALOG NUMBER: GLEON-AF-08-LED-E1-T3-8030-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193976

CATALOG NUMBER: GLEON-AF-08-LED-E1-T3-8030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5541.6	0.0	5541.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	20111.4	0.0	20111.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	25653.0	0.0	25653.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.3	1.2
10°-20°	836.2	3.3
20°-30°	1400.8	5.5
30°-40°	2303.5	9.0
40°-50°	3877.5	15.1
50°-60°	6102.8	23.8
60°-70°	7283.1	28.4
70°-80°	3127.5	12.2
80°-90°	426.4	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°	25653.0	100.0
0°-180°	25653.0	100.0



REPORT NUMBER: P193976

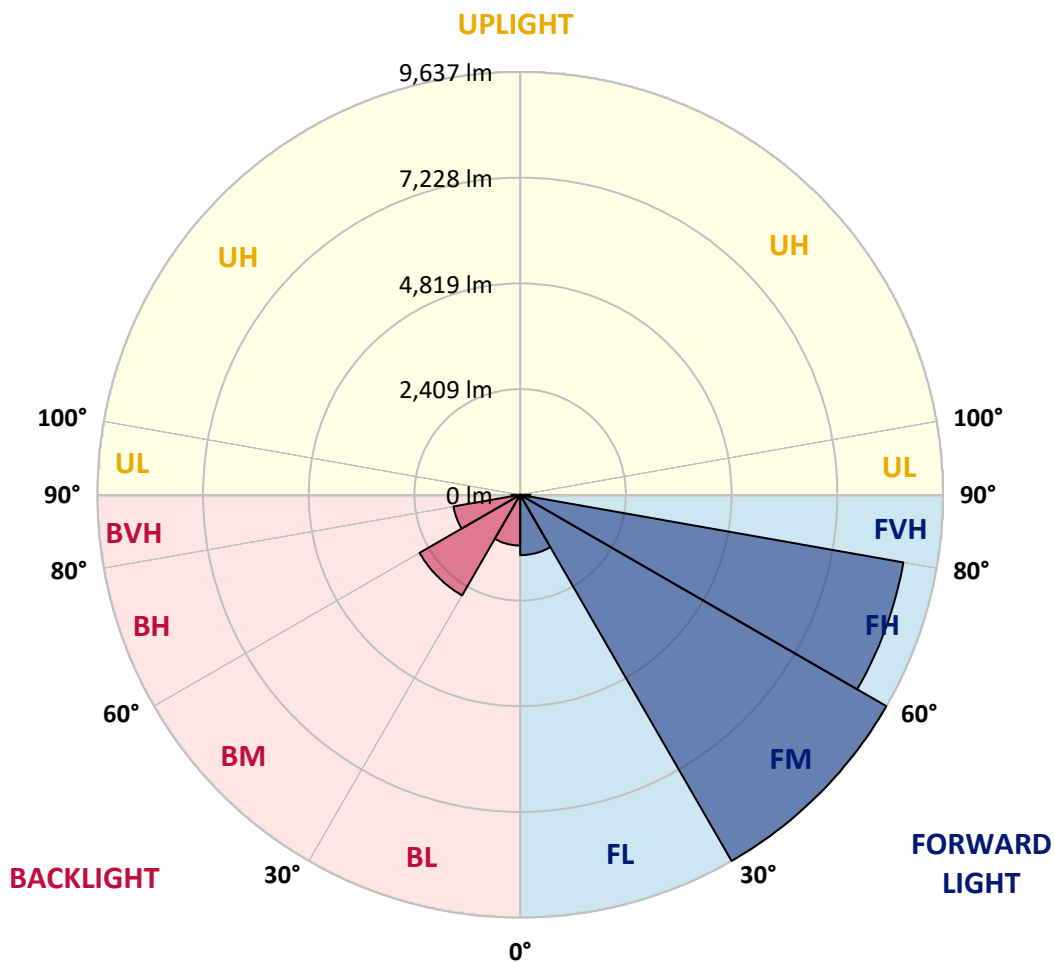
CATALOG NUMBER: GLEON-AF-08-LED-E1-T3-8030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1375.1	5.4			
FM	(30°-60°)	9637.2	37.6			
FH	(60°-80°)	8868.4	34.6			G4/12000
FVH	(80°-90°)	230.8	0.9			G3/500
BL	(0°-30°)	1157.2	4.5	B3/2500		
BM	(30°-60°)	2646.6	10.3	B3/5000		
BH	(60°-80°)	1542.2	6.0	B3/2500		G3/2500
BVH	(80°-90°)	195.6	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: P193976

CATALOG NUMBER: GLEON-AF-08-LED-E1-T3-8030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3163.3	3163.3	3163.3	3163.3	3163.3	3163.3	3163.3	3163.3	3163.3	3163.3	3163.3
2.5°	3136.0	3137.3	3139.8	3149.7	3158.3	3155.9	3157.1	3152.1	3150.9	3143.5	3150.9
5°	3096.4	3100.1	3101.3	3117.5	3127.4	3129.8	3126.1	3119.9	3112.5	3105.1	3108.8
7.5°	3005.9	3015.8	3017.1	3039.4	3055.5	3076.6	3077.8	3079.0	3075.3	3070.4	3077.8
10°	2948.9	2951.4	2950.2	2966.3	2978.7	3002.2	3015.8	3039.4	3049.3	3051.8	3056.7
12.5°	2945.2	2942.7	2939.0	2939.0	2935.3	2945.2	2970.0	3003.5	3027.0	3034.4	3040.6
15°	2984.9	2983.6	2971.2	2952.7	2929.1	2921.7	2942.7	2979.9	3010.9	3027.0	3033.2
17.5°	3074.1	3066.6	3046.8	3004.7	2953.9	2934.1	2936.5	2967.5	3003.5	3024.5	3030.7
20°	3237.6	3237.6	3195.5	3116.2	3025.8	2978.7	2956.4	2975.0	3009.7	3038.2	3046.8
22.5°	3520.1	3522.6	3452.0	3321.9	3169.5	3069.1	3013.4	3009.7	3050.5	3082.8	3092.7
25°	3920.4	3910.4	3811.3	3625.5	3393.8	3227.7	3131.1	3108.8	3143.5	3179.4	3191.8
27.5°	4386.2	4350.3	4232.6	4008.3	3708.5	3465.6	3316.9	3281.0	3314.5	3355.3	3367.7
30°	4847.2	4810.0	4670.0	4424.6	4091.3	3784.1	3570.9	3512.7	3559.8	3618.0	3625.5
32.5°	5308.1	5308.1	5152.0	4865.8	4502.7	4164.4	3909.2	3839.8	3917.9	3988.5	4004.6
35°	5859.5	5861.9	5710.8	5366.3	4976.0	4617.9	4336.7	4285.9	4403.6	4453.1	4491.6
37.5°	6537.2	6550.9	6356.3	5940.0	5512.5	5135.9	4801.3	4731.9	4849.6	4984.7	5108.6
40°	7269.5	7286.9	7072.5	6559.5	6132.1	5738.0	5376.2	5251.1	5446.9	5704.6	5864.4
42.5°	7968.3	8057.5	7850.6	7322.8	6863.1	6455.5	6088.7	5906.6	6151.9	6540.9	6679.7
45°	8978.2	9042.6	8682.0	8203.8	7771.3	7315.4	6829.6	6637.6	6980.8	7471.5	7500.0
47.5°	9651.0	9602.6	9419.3	9121.9	8848.1	8421.8	7690.8	7480.1	7936.1	8513.5	8353.7
50°	10009.0	10023.9	9999.1	10016.5	10026.4	9758.8	8746.5	8457.8	9001.7	9699.3	9331.3
52.5°	10343.6	10244.5	10326.2	10732.7	11223.3	11124.2	9895.1	9594.0	10144.1	11015.2	10364.7
55°	10336.2	10185.0	10451.4	11168.8	12233.1	12347.1	11184.9	10838.0	11352.2	12426.4	11460.0
57.5°	9970.6	9978.1	10388.2	11327.4	12936.9	13497.0	12681.7	12161.3	12633.4	13856.3	12459.9
60°	9467.6	9535.7	10126.8	11301.4	13500.7	14439.9	14518.0	13587.4	13888.5	15156.1	13287.6
62.5°	8656.0	8727.9	9543.2	11031.3	13415.2	15348.1	16178.3	15205.6	15200.7	15944.1	13530.4
65°	7376.1	7355.0	8211.2	10021.4	12697.8	16019.7	17827.5	16604.5	16189.4	15956.5	13042.2
67.5°	5439.4	5345.3	6080.0	7632.5	10554.2	15267.6	18797.6	17333.1	16526.5	14907.0	11550.4
70°	2822.6	2728.4	3323.1	4456.9	6941.2	11915.9	17723.4	16956.4	15781.8	12495.8	9048.8
72.5°	1206.8	1190.7	1432.3	1955.2	3357.8	6873.0	13897.2	14676.5	13541.6	9310.2	6221.3
75°	811.6	806.6	897.1	1065.6	1510.4	2789.1	8696.9	10417.9	9907.4	5772.7	3499.1
77.5°	636.9	630.7	684.0	765.7	978.8	1100.3	3859.6	5593.1	5176.8	2512.8	1531.5
80°	498.1	493.1	526.6	571.2	703.8	693.9	1270.0	2225.3	1722.3	962.7	744.7
82.5°	392.8	392.8	420.0	421.3	499.3	473.3	662.9	980.1	859.9	561.3	456.0
85°	359.3	359.3	387.8	314.7	325.9	298.6	411.4	581.1	545.2	230.5	198.2
87.5°	180.9	175.9	325.9	278.8	177.2	158.6	200.7	281.3	302.3	127.6	99.1
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: P193976

CATALOG NUMBER: GLEON-AF-08-LED-E1-T3-8030-600

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3163.3	3163.3	3163.3	3163.3	3163.3	3163.3	3163.3	3163.3	3163.3	3163.3
2.5°	3148.4	3147.2	3149.7	3150.9	3160.8	3174.4	3180.6	3189.3	3194.3	3191.8
5°	3111.3	3113.7	3123.6	3131.1	3148.4	3170.7	3183.1	3193.0	3201.7	3198.0
7.5°	3080.3	3086.5	3101.3	3107.5	3117.5	3123.6	3122.4	3126.1	3133.6	3124.9
10°	3062.9	3070.4	3081.5	3072.8	3049.3	3015.8	2984.9	2968.8	2973.7	2967.5
12.5°	3045.6	3055.5	3046.8	3005.9	2940.3	2896.9	2873.4	2875.8	2887.0	2889.5
15°	3035.7	3039.4	3002.2	2925.4	2858.5	2852.3	2864.7	2862.2	2863.4	2863.4
17.5°	3035.7	3025.8	2956.4	2879.6	2851.1	2839.9	2801.5	2753.2	2732.1	2724.7
20°	3051.8	3025.8	2941.5	2890.7	2828.8	2733.3	2631.7	2542.5	2502.9	2491.7
22.5°	3100.1	3055.5	2983.6	2895.7	2719.7	2559.9	2398.8	2292.2	2220.4	2208.0
25°	3198.0	3148.4	3066.6	2830.0	2546.2	2318.3	2134.9	2015.9	1944.1	1934.2
27.5°	3369.0	3336.8	3111.3	2685.0	2315.8	2071.7	1901.9	1810.3	1757.0	1753.3
30°	3626.7	3610.6	3089.0	2470.7	2032.0	1832.6	1750.8	1697.5	1657.8	1656.6
32.5°	4038.1	3908.0	3015.8	2209.2	1773.1	1662.8	1629.4	1597.1	1566.2	1566.2
35°	4567.1	4148.3	2877.1	1929.2	1615.7	1568.6	1526.5	1475.7	1434.8	1432.3
37.5°	5189.1	4297.0	2628.0	1703.7	1541.4	1505.4	1443.5	1367.9	1296.0	1283.7
40°	5817.3	4341.6	2277.4	1564.9	1494.3	1442.3	1366.7	1277.5	1208.1	1204.4
42.5°	6393.5	4256.1	1905.7	1469.5	1447.2	1377.8	1298.5	1219.2	1164.7	1163.5
45°	6876.7	4034.3	1593.4	1379.1	1397.6	1319.6	1249.0	1184.5	1142.4	1133.7
47.5°	7331.5	3720.9	1374.1	1283.7	1348.1	1287.4	1227.9	1167.2	1126.3	1120.1
50°	7859.3	3382.6	1220.5	1190.7	1304.7	1276.2	1245.2	1182.1	1113.9	1106.5
52.5°	8498.6	3090.2	1100.3	1108.9	1271.3	1291.1	1289.9	1224.2	1105.2	1095.3
55°	9212.3	2765.6	1009.8	1042.0	1257.6	1318.3	1301.0	1263.8	1112.7	1097.8
57.5°	9914.9	2386.4	946.6	991.2	1237.8	1315.9	1247.7	1194.4	1130.0	1108.9
60°	10441.5	1877.2	898.3	946.6	1194.4	1275.0	1189.5	1118.9	1126.3	1110.2
62.5°	10476.2	1450.9	840.1	908.2	1128.8	1234.1	1151.1	1085.4	1142.4	1127.5
65°	9860.4	1096.6	784.3	862.4	1058.1	1208.1	1113.9	1066.8	1175.9	1159.8
67.5°	8301.6	882.2	737.2	815.3	987.5	1153.6	1080.5	1049.5	1205.6	1177.1
70°	5993.3	752.1	691.4	758.3	924.3	1091.6	1050.7	1018.5	1125.1	1080.5
72.5°	3689.9	651.7	639.3	682.7	876.0	1027.2	1006.1	960.3	1013.5	977.6
75°	1842.5	565.0	581.1	608.4	807.9	954.1	931.8	885.9	893.4	885.9
77.5°	882.2	483.2	513.0	534.0	719.9	871.1	847.5	800.4	791.8	793.0
80°	558.8	403.9	432.4	447.3	643.1	774.4	750.9	703.8	802.9	744.7
82.5°	349.4	328.3	335.8	363.0	560.1	674.0	643.1	600.9	723.6	572.4
85°	193.3	229.2	239.1	262.7	431.2	563.8	532.8	479.5	430.0	422.5
87.5°	115.2	136.3	140.0	157.4	289.9	407.6	360.6	342.0	283.7	282.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)