

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: P194100

Luminaire Tested: **GLEON-AF-02-LED-E1-T4W-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-T4W-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7973 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 85
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

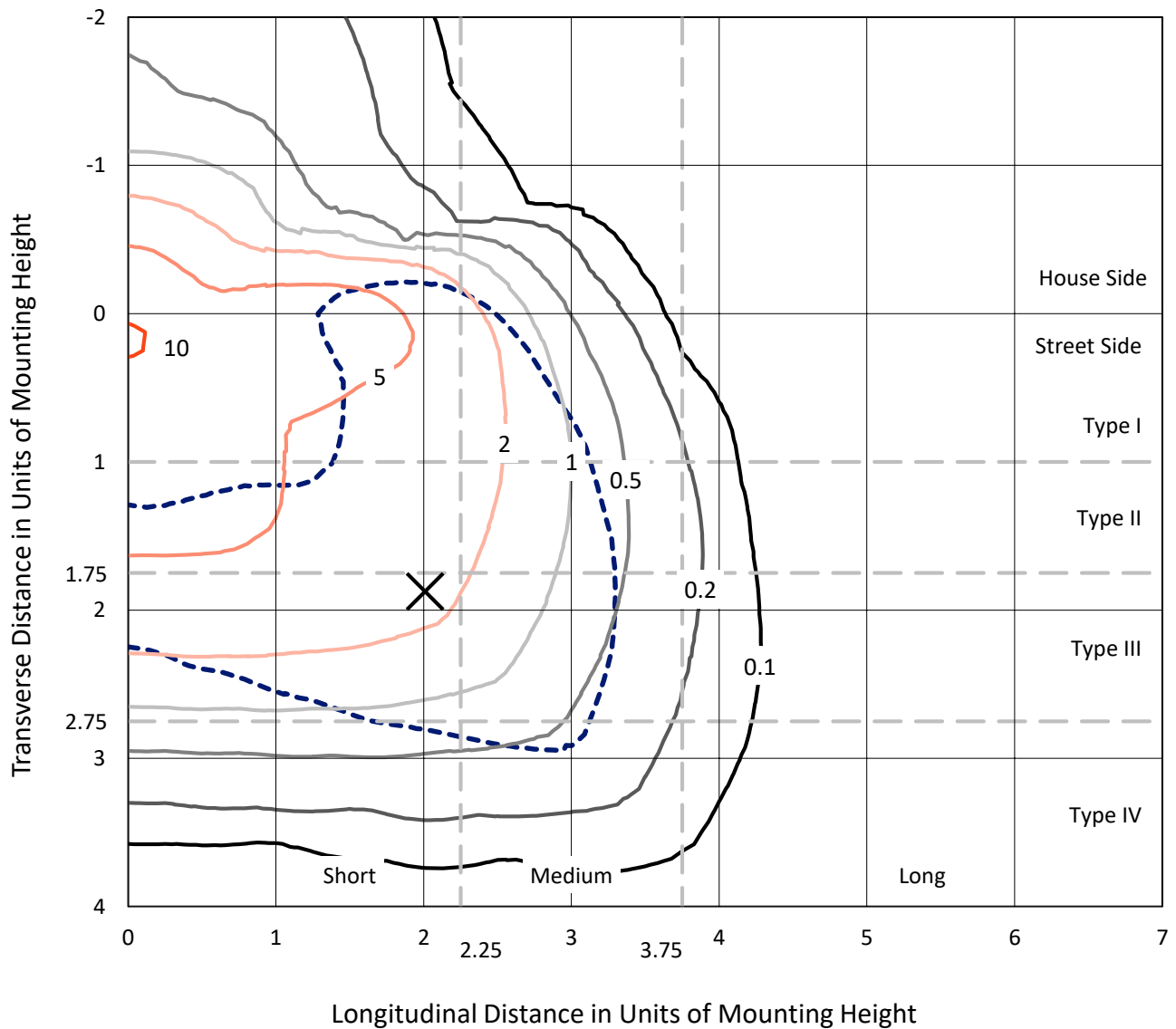


REPORT NUMBER: P194100

CATALOG NUMBER: GLEON-AF-02-LED-E1-T4W-8030-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

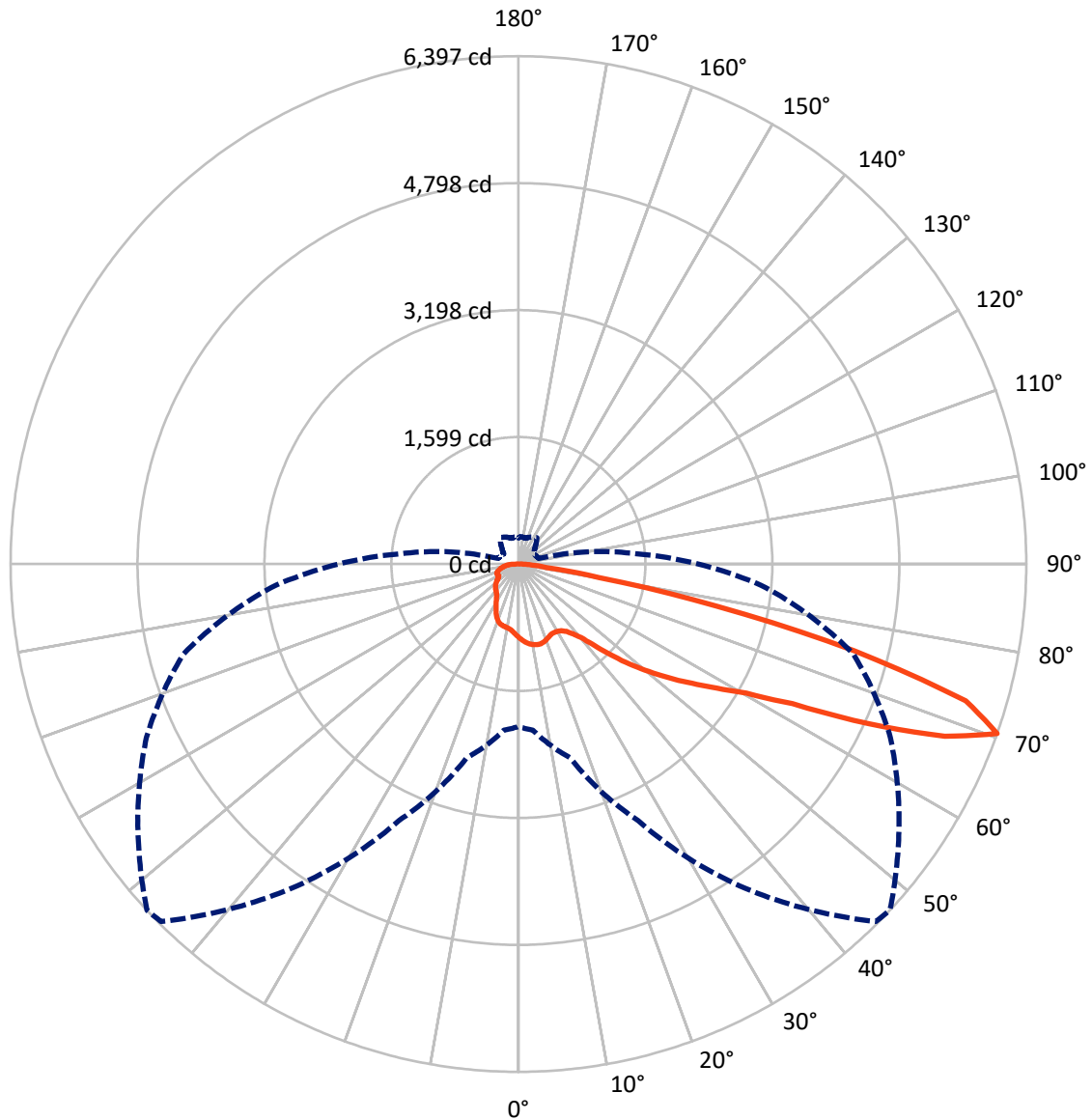


Based on 10 foot mounting height. Maximum calculated value = 10.7 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P194100

CATALOG NUMBER: GLEON-AF-02-LED-E1-T4W-8030-800

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P194100

CATALOG NUMBER: GLEON-AF-02-LED-E1-T4W-8030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1663.3	0.0	1663.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	6309.7	0.0	6309.7
	% Fixture	79.1	0.0	79.1
Total	Lumens	7973.0	0.0	7973.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	1.1
10°-20°	260.1	3.3
20°-30°	384.0	4.8
30°-40°	558.2	7.0
40°-50°	1004.5	12.6
50°-60°	1740.2	21.8
60°-70°	2483.8	31.2
70°-80°	1275.0	16.0
80°-90°	178.5	2.2
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°	7973.0	100.0
0°-180°	7973.0	100.0



REPORT NUMBER: P194100

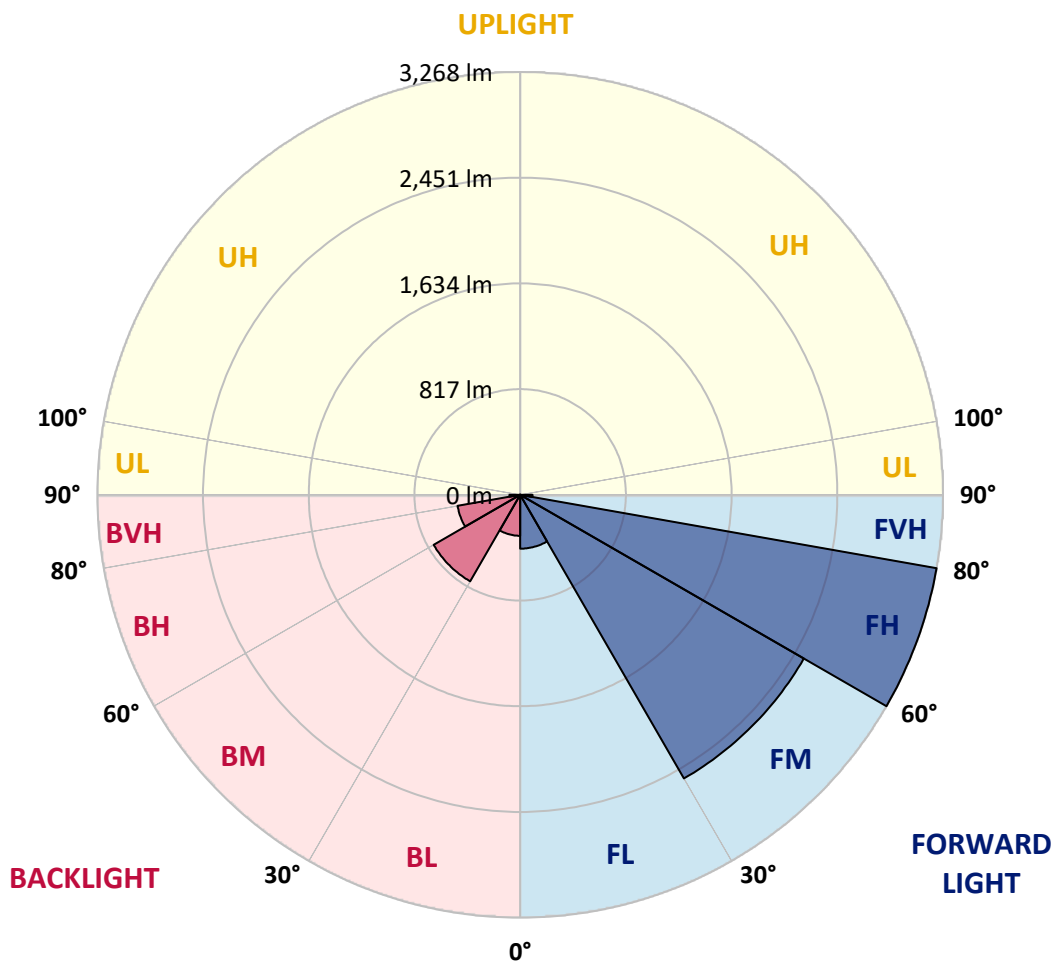
CATALOG NUMBER: GLEON-AF-02-LED-E1-T4W-8030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	416.0	5.2			
FM	(30°-60°)	2530.8	31.7			
FH	(60°-80°)	3267.6	41.0			G2/5000
FVH	(80°-90°)	95.3	1.2			G1/100
BL	(0°-30°)	316.7	4.0	B1/500		
BM	(30°-60°)	772.1	9.7	B1/1000		
BH	(60°-80°)	491.3	6.2	B1/500		G1/500
BVH	(80°-90°)	83.3	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P194100

CATALOG NUMBER: GLEON-AF-02-LED-E1-T4W-8030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	925.1	925.1	925.1	925.1	925.1	925.1	925.1	925.1	925.1	925.1	925.1
2.5°	979.4	977.5	976.7	975.2	973.2	963.5	961.6	954.6	944.9	934.8	924.3
5°	1043.8	1043.4	1039.2	1031.4	1019.0	997.7	992.6	975.5	952.7	930.5	908.4
7.5°	1100.4	1097.0	1088.8	1073.3	1051.6	1022.5	1015.5	991.8	960.4	930.2	900.3
10°	1141.9	1140.0	1122.2	1100.8	1072.5	1040.3	1032.2	1005.8	971.3	932.9	895.6
12.5°	1165.6	1161.7	1141.2	1115.6	1081.8	1050.4	1042.3	1015.5	976.7	932.9	889.0
15°	1164.1	1161.3	1140.8	1112.9	1078.7	1051.2	1043.8	1017.0	975.5	929.0	880.5
17.5°	1133.0	1134.2	1116.7	1089.2	1061.3	1040.3	1033.7	1008.9	967.8	921.2	870.4
20°	1078.7	1084.2	1072.5	1048.1	1032.6	1018.2	1013.9	993.0	955.8	910.0	859.6
22.5°	1024.4	1029.5	1024.8	1004.2	1001.9	993.4	991.1	975.9	945.3	903.0	853.0
25°	984.5	989.1	988.3	970.5	977.5	977.1	975.2	967.8	943.0	903.0	854.1
27.5°	973.6	975.2	973.6	957.3	967.0	974.8	973.2	972.1	949.9	914.3	868.9
30°	1010.8	1008.5	996.5	963.5	972.4	983.3	981.7	982.5	970.9	943.7	901.8
32.5°	1159.4	1148.9	1110.9	1018.2	994.5	1000.4	1001.1	1013.9	1015.9	989.1	953.0
35°	1381.7	1370.0	1320.8	1164.8	1063.2	1043.0	1043.0	1062.4	1074.1	1054.3	1032.6
37.5°	1617.1	1604.3	1577.9	1368.1	1207.5	1117.1	1115.2	1128.8	1145.4	1150.1	1155.5
40°	1884.8	1871.2	1878.5	1596.2	1408.8	1245.5	1218.0	1208.3	1253.3	1283.1	1326.6
42.5°	2177.6	2171.4	2174.1	1850.2	1638.1	1437.5	1398.3	1348.3	1402.6	1455.7	1546.9
45°	2448.7	2454.2	2451.5	2122.1	1893.3	1671.8	1630.3	1533.3	1586.5	1677.6	1826.2
47.5°	2686.1	2663.6	2698.5	2419.3	2179.2	1934.0	1882.8	1752.9	1806.8	1919.3	2170.6
50°	2974.3	2971.2	2920.0	2815.7	2524.8	2197.4	2130.3	1979.8	2063.6	2219.9	2604.7
52.5°	3277.3	3221.0	3174.1	3124.1	2891.3	2467.4	2385.1	2205.9	2365.3	2562.0	3133.8
55°	3339.3	3314.1	3372.3	3456.5	3244.7	2747.8	2652.0	2489.5	2705.1	2953.0	3743.9
57.5°	3472.0	3471.6	3591.9	3742.0	3608.5	3045.3	2948.7	2832.0	3087.2	3401.0	4391.7
60°	3561.6	3586.8	3810.2	4101.5	3965.8	3389.0	3300.2	3227.2	3521.6	3901.8	4995.2
62.5°	3608.5	3642.7	3947.6	4247.4	4470.8	3961.1	3872.3	3767.2	4096.5	4451.0	5348.2
65°	3413.4	3480.5	3926.2	4373.5	4913.0	4888.6	4848.6	4664.0	4815.3	4885.1	5220.6
67.5°	2873.5	2942.1	3461.1	4255.9	5228.7	5783.0	5791.6	5476.2	5257.5	4922.3	4389.4
70°	2047.3	2101.2	2530.6	3568.2	4988.3	6367.6	6396.7	5850.5	5169.4	4365.3	3066.7
72.5°	972.1	1005.0	1411.5	2322.3	3958.4	5834.2	5890.5	5372.7	4395.6	3231.9	1673.0
75°	357.2	367.3	477.1	988.0	2295.9	4302.5	4368.8	3851.4	2913.8	1609.0	637.3
77.5°	214.1	220.7	267.6	417.0	903.0	2459.2	2557.4	2094.6	1273.4	598.9	313.4
80°	149.7	154.4	192.0	259.5	426.7	937.1	1024.4	854.9	507.4	379.0	228.1
82.5°	101.2	103.6	135.0	175.3	283.5	334.7	361.1	380.1	342.1	282.0	144.7
85°	66.3	68.7	91.5	115.6	180.4	173.0	176.9	223.8	249.8	191.6	80.3
87.5°	38.0	39.6	55.1	61.7	88.4	73.3	74.1	117.9	159.8	129.2	48.9
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: P194100

CATALOG NUMBER: GLEON-AF-02-LED-E1-T4W-8030-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	925.1	925.1	925.1	925.1	925.1	925.1	925.1	925.1	925.1	925.1	925.1
2.5°	921.6	916.6	905.3	898.4	891.8	890.2	887.5	887.1	886.7	886.7	885.6
5°	901.1	892.5	875.1	865.4	857.2	856.5	856.1	858.0	858.8	859.6	858.4
7.5°	887.9	876.2	854.5	840.6	830.9	828.5	832.4	841.3	847.2	849.5	848.3
10°	879.7	865.4	840.2	825.0	816.9	815.7	820.8	831.2	843.3	847.9	847.5
12.5°	870.4	854.1	827.4	811.5	806.8	809.1	815.7	825.4	837.8	845.2	845.6
15°	861.1	842.1	814.6	800.6	798.7	801.8	808.0	815.3	825.0	832.4	833.2
17.5°	849.9	830.1	802.5	788.2	786.6	788.2	788.6	792.5	798.7	805.6	807.6
20°	837.8	817.7	789.0	774.6	767.6	761.4	754.4	755.2	757.2	764.1	765.7
22.5°	829.3	809.1	778.5	758.7	740.1	721.5	707.5	705.6	706.3	712.2	714.1
25°	830.1	808.7	775.8	741.6	700.9	671.0	652.4	649.3	648.9	653.2	655.9
27.5°	845.2	823.9	785.9	724.2	658.2	614.0	594.2	591.9	588.8	590.0	593.1
30°	879.0	859.2	810.3	706.3	612.1	558.2	537.6	535.3	531.0	529.1	531.4
32.5°	934.0	917.7	846.0	689.3	565.9	510.5	489.5	484.5	481.8	479.4	481.4
35°	1025.6	1018.6	893.7	670.7	525.2	473.6	454.6	446.8	443.0	447.2	450.3
37.5°	1169.1	1173.0	956.1	641.6	493.8	449.2	433.3	424.4	418.5	422.0	425.5
40°	1372.4	1375.1	1025.2	600.5	466.6	434.8	417.8	409.6	401.5	395.3	394.9
42.5°	1639.2	1611.7	1093.1	555.8	435.2	425.9	406.9	396.8	384.4	367.3	363.8
45°	1955.7	1859.2	1144.7	504.6	399.9	415.0	394.9	380.9	361.5	342.9	341.0
47.5°	2320.4	2124.9	1169.9	451.5	366.9	399.1	380.1	358.0	333.6	324.3	323.1
50°	2765.7	2440.2	1181.9	399.9	338.2	378.2	358.8	332.8	312.3	310.3	309.1
52.5°	3272.6	2819.6	1185.8	357.6	314.6	351.0	341.3	316.1	299.8	301.4	301.4
55°	3803.3	3211.3	1133.0	327.0	292.9	323.1	329.7	309.5	296.0	302.2	304.5
57.5°	4290.4	3558.5	967.0	303.3	272.3	301.8	325.4	315.7	306.4	331.6	333.2
60°	4664.4	3763.7	722.3	282.0	257.2	294.4	336.7	339.4	341.7	401.9	410.0
62.5°	4742.7	3695.4	496.5	265.3	250.2	300.6	357.2	357.6	354.9	396.8	401.9
65°	4383.2	3263.7	361.1	256.0	244.4	311.9	374.7	366.6	348.7	380.5	371.2
67.5°	3480.9	2458.8	300.6	249.0	235.8	311.1	393.3	374.7	345.2	372.8	357.6
70°	2259.5	1486.8	267.6	243.2	225.8	296.3	404.2	373.9	335.1	346.8	328.9
72.5°	1102.4	664.8	245.5	234.7	215.3	275.8	403.8	366.9	324.7	323.9	314.2
75°	431.3	304.5	225.4	221.9	197.4	252.5	392.9	356.9	312.3	299.8	296.3
77.5°	252.5	217.2	199.8	202.9	176.1	229.2	377.0	339.4	295.2	280.4	276.6
80°	183.9	162.5	170.3	175.3	150.5	206.0	355.7	318.1	276.2	283.5	278.1
82.5°	117.9	104.7	138.1	143.1	125.3	182.3	332.4	295.6	249.4	226.5	221.1
85°	60.1	66.3	102.8	109.0	96.6	149.7	304.1	265.7	219.2	188.5	191.6
87.5°	33.7	45.4	65.6	73.3	68.3	115.2	246.7	219.2	178.8	145.5	128.0
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)