

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: P191451

Luminaire Tested: **GLEON-AF-03-LED-E1-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191451
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-03-LED-E1-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18593.2 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 166
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

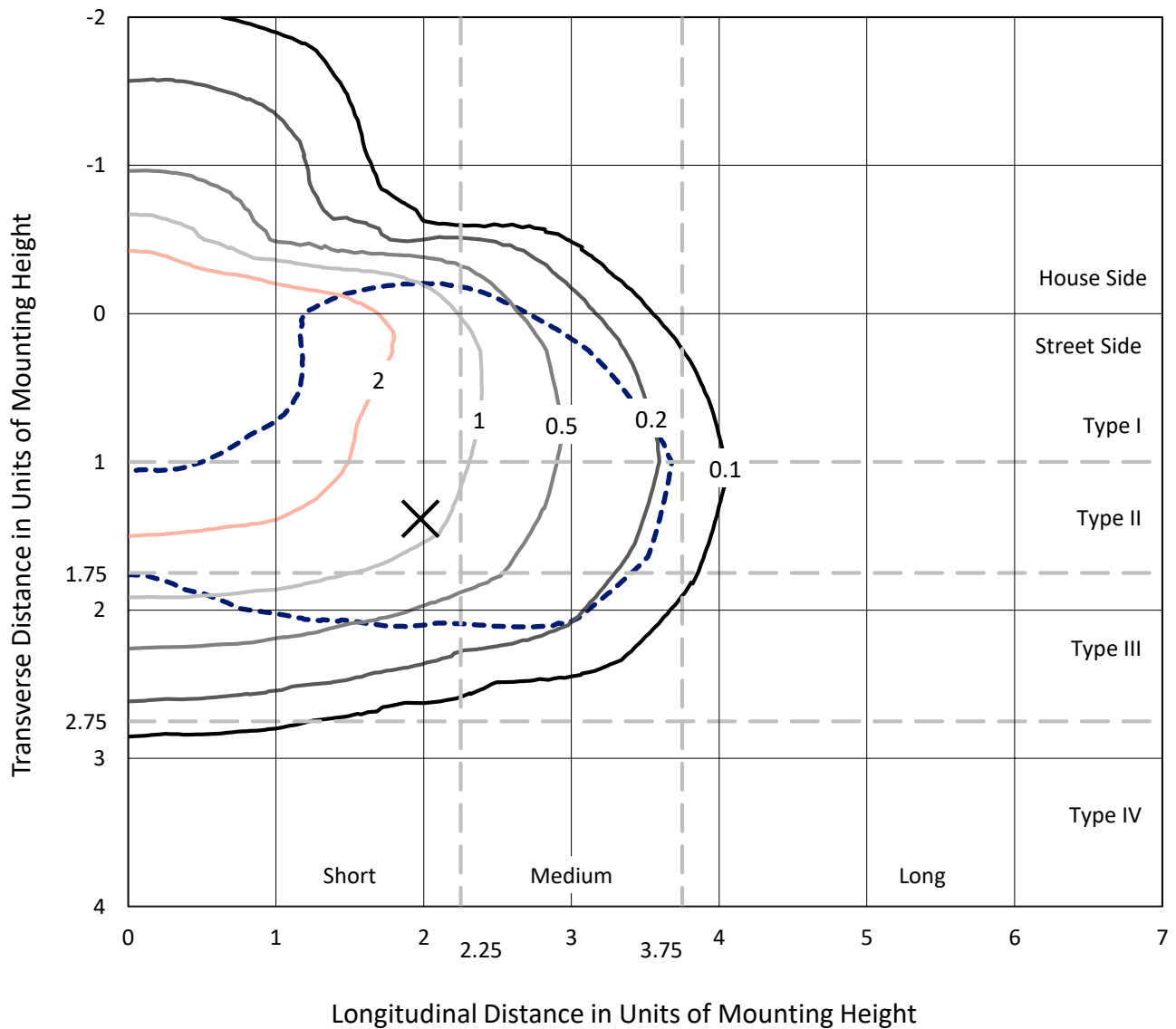


REPORT NUMBER: P191451

CATALOG NUMBER: GLEON-AF-03-LED-E1-T3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

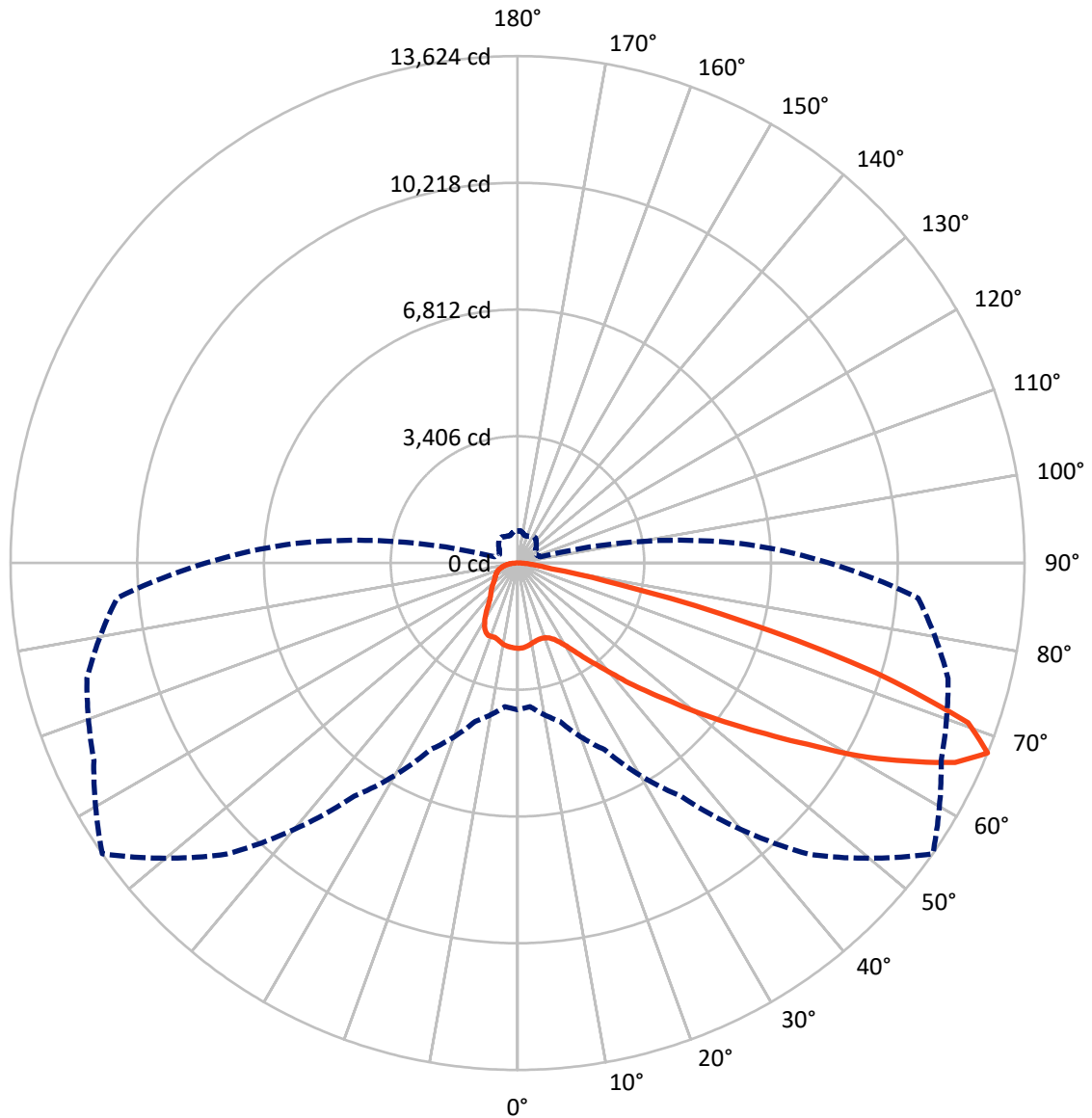


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P191451

CATALOG NUMBER: GLEON-AF-03-LED-E1-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191451

CATALOG NUMBER: GLEON-AF-03-LED-E1-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4016.5	0.0	4016.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	14576.6	0.0	14576.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	18593.2	0.0	18593.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.0	1.2
10°-20°	606.1	3.3
20°-30°	1015.3	5.5
30°-40°	1669.5	9.0
40°-50°	2810.4	15.1
50°-60°	4423.3	23.8
60°-70°	5278.7	28.4
70°-80°	2266.8	12.2
80°-90°	309.1	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°	18593.2	100.0
0°-180°	18593.2	100.0



REPORT NUMBER: P191451

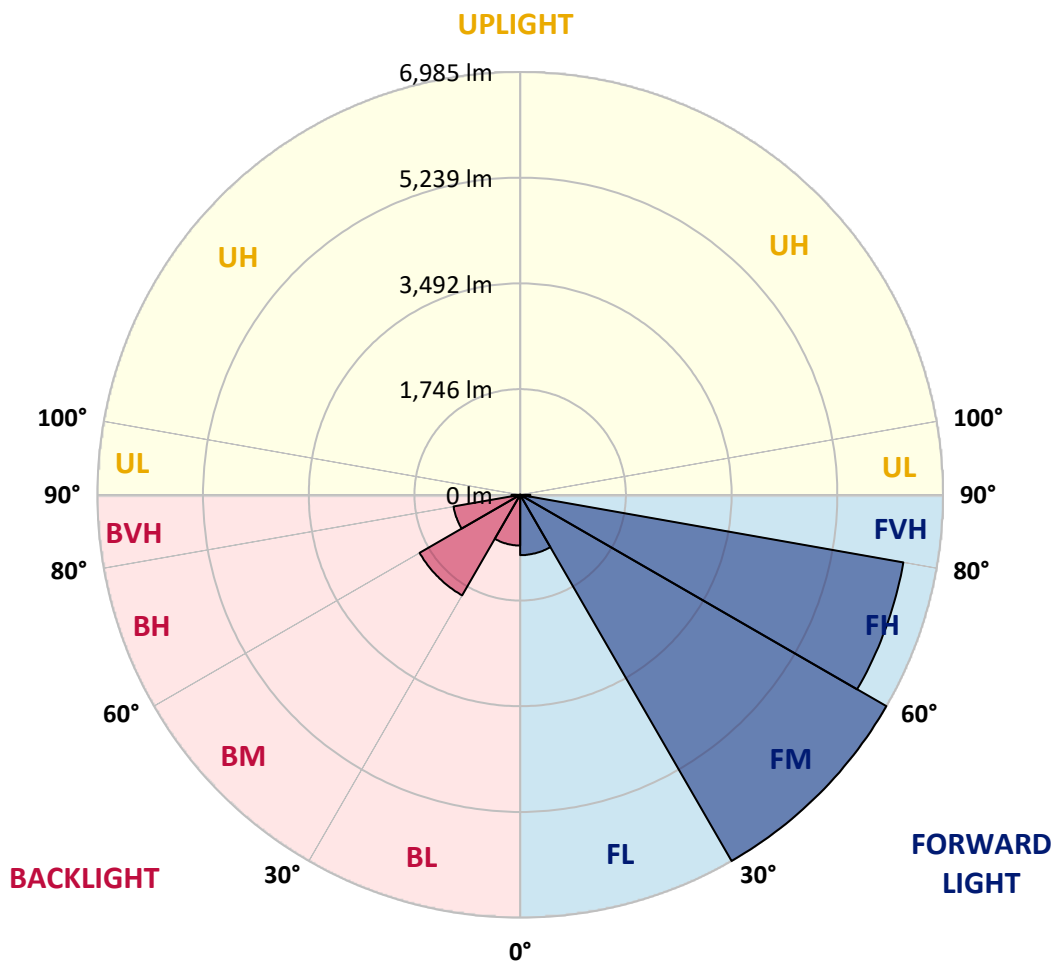
CATALOG NUMBER: GLEON-AF-03-LED-E1-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	996.6	5.4			
FM (30°-60°)	6985.0	37.6			
FH (60°-80°)	6427.7	34.6			G3/7500
FVH (80°-90°)	167.3	0.9			G2/225
BL (0°-30°)	838.7	4.5	B2/1000		
BM (30°-60°)	1918.2	10.3	B2/2500		
BH (60°-80°)	1117.8	6.0	B3/2500		G3/2500
BVH (80°-90°)	141.8	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-G3

Type III Short





REPORT NUMBER: P191451

CATALOG NUMBER: GLEON-AF-03-LED-E1-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2292.7	2292.7	2292.7	2292.7	2292.7	2292.7	2292.7	2292.7	2292.7	2292.7	2292.7
2.5°	2273.0	2273.9	2275.7	2282.8	2289.2	2287.3	2288.2	2284.7	2283.7	2278.4	2283.7
5°	2244.3	2246.9	2247.8	2259.5	2266.7	2268.5	2265.8	2261.3	2255.9	2250.5	2253.3
7.5°	2178.7	2185.8	2186.8	2202.9	2214.6	2229.8	2230.7	2231.7	2229.0	2225.4	2230.7
10°	2137.4	2139.2	2138.3	2149.9	2158.9	2176.0	2185.8	2202.9	2210.1	2211.9	2215.5
12.5°	2134.7	2132.9	2130.2	2130.2	2127.5	2134.7	2152.6	2176.8	2193.9	2199.3	2203.8
15°	2163.4	2162.5	2153.5	2140.1	2123.0	2117.6	2132.9	2159.9	2182.3	2193.9	2198.4
17.5°	2228.1	2222.7	2208.3	2177.8	2140.9	2126.6	2128.4	2150.9	2176.8	2192.2	2196.7
20°	2346.6	2346.6	2316.1	2258.6	2193.1	2158.9	2142.8	2156.3	2181.3	2202.0	2208.3
22.5°	2551.3	2553.2	2502.0	2407.7	2297.2	2224.5	2184.1	2181.3	2211.0	2234.3	2241.6
25°	2841.5	2834.3	2762.4	2627.8	2459.8	2339.5	2269.4	2253.3	2278.4	2304.4	2313.4
27.5°	3179.1	3153.0	3067.7	2905.2	2687.9	2511.9	2404.1	2378.1	2402.3	2432.0	2441.0
30°	3513.2	3486.2	3384.7	3207.0	2965.4	2742.6	2588.2	2546.0	2580.1	2622.3	2627.8
32.5°	3847.3	3847.3	3734.1	3526.6	3263.5	3018.3	2833.4	2783.0	2839.6	2890.9	2902.5
35°	4246.9	4248.7	4139.2	3889.5	3606.6	3347.1	3143.2	3106.4	3191.7	3227.6	3255.4
37.5°	4738.1	4748.0	4607.1	4305.3	3995.4	3722.4	3480.0	3429.6	3515.0	3612.9	3702.7
40°	5268.9	5281.5	5126.1	4754.3	4444.5	4158.9	3896.6	3806.0	3947.9	4134.7	4250.5
42.5°	5775.4	5840.0	5690.1	5307.5	4974.3	4678.9	4413.0	4281.0	4458.8	4740.9	4841.4
45°	6507.3	6554.0	6292.7	5946.0	5632.6	5302.2	4950.1	4810.9	5059.6	5415.3	5436.0
47.5°	6994.9	6960.0	6827.1	6611.5	6413.0	6104.0	5574.3	5421.5	5752.1	6170.5	6054.7
50°	7254.5	7265.3	7247.3	7259.9	7267.0	7073.1	6339.4	6130.1	6524.4	7030.0	6763.2
52.5°	7497.0	7425.1	7484.4	7778.9	8134.6	8062.8	7171.9	6953.6	7352.4	7983.7	7512.2
55°	7491.6	7382.0	7575.2	8095.1	8866.5	8949.2	8106.8	7855.3	8228.0	9006.6	8306.2
57.5°	7226.6	7232.1	7529.3	8210.0	9376.6	9782.6	9191.6	8814.5	9156.6	10042.9	9030.8
60°	6862.1	6911.5	7339.8	8191.2	9785.2	10465.9	10522.5	9848.0	10066.3	10985.1	9630.8
62.5°	6273.9	6325.9	6916.8	7995.4	9723.2	11124.2	11725.9	11021.0	11017.4	11556.2	9806.8
65°	5346.1	5330.9	5951.4	7263.5	9203.3	11611.0	12921.2	12034.8	11734.0	11565.2	9453.0
67.5°	3942.5	3874.2	4406.8	5532.0	7649.6	11065.9	13624.4	12563.0	11978.2	10804.5	8371.7
70°	2045.8	1977.6	2408.5	3230.3	5030.9	8636.6	12845.8	12289.9	11438.5	9056.9	6558.5
72.5°	874.7	863.1	1038.2	1417.1	2433.7	4981.6	10072.6	10637.5	9814.9	6748.0	4509.2
75°	588.2	584.6	650.2	772.3	1094.8	2021.6	6303.4	7550.9	7180.9	4184.1	2536.1
77.5°	461.6	457.2	495.7	555.0	709.4	797.5	2797.5	4053.9	3752.1	1821.3	1110.0
80°	361.0	357.4	381.7	414.0	510.1	502.9	920.6	1612.9	1248.3	697.8	539.7
82.5°	284.7	284.7	304.4	305.4	361.9	343.1	480.5	710.3	623.3	406.8	330.5
85°	260.4	260.4	281.1	228.1	236.2	216.5	298.2	421.1	395.2	167.0	143.7
87.5°	131.1	127.6	236.2	202.0	128.4	115.0	145.5	203.9	219.1	92.5	71.8
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: P191451

CATALOG NUMBER: GLEON-AF-03-LED-E1-T3

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2292.7	2292.7	2292.7	2292.7	2292.7	2292.7	2292.7	2292.7	2292.7	2292.7
2.5°	2282.0	2281.1	2282.8	2283.7	2290.9	2300.8	2305.3	2311.6	2315.1	2313.4
5°	2255.0	2256.8	2264.0	2269.4	2282.0	2298.2	2307.1	2314.3	2320.6	2317.9
7.5°	2232.6	2237.1	2247.8	2252.3	2259.5	2264.0	2263.1	2265.8	2271.2	2264.9
10°	2220.0	2225.4	2233.5	2227.2	2210.1	2185.8	2163.4	2151.8	2155.4	2150.9
12.5°	2207.4	2214.6	2208.3	2178.7	2131.1	2099.6	2082.6	2084.4	2092.4	2094.3
15°	2200.3	2202.9	2176.0	2120.3	2071.8	2067.3	2076.3	2074.5	2075.4	2075.4
17.5°	2200.3	2193.1	2142.8	2087.1	2066.5	2058.4	2030.6	1995.5	1980.2	1974.8
20°	2211.9	2193.1	2132.0	2095.2	2050.3	1981.1	1907.5	1842.8	1814.1	1806.0
22.5°	2246.9	2214.6	2162.5	2098.8	1971.2	1855.4	1738.6	1661.4	1609.3	1600.3
25°	2317.9	2282.0	2222.7	2051.1	1845.5	1680.3	1547.3	1461.2	1409.0	1401.9
27.5°	2441.8	2418.5	2255.0	1946.1	1678.5	1501.6	1378.5	1312.0	1273.5	1270.7
30°	2628.6	2616.9	2238.8	1790.7	1472.8	1328.2	1269.0	1230.3	1201.6	1200.7
32.5°	2926.8	2832.4	2185.8	1601.2	1285.1	1205.2	1180.9	1157.6	1135.2	1135.2
35°	3310.3	3006.7	2085.3	1398.3	1171.1	1136.9	1106.4	1069.6	1039.9	1038.2
37.5°	3761.1	3114.5	1904.7	1234.8	1117.2	1091.2	1046.3	991.4	939.4	930.4
40°	4216.4	3146.8	1650.6	1134.2	1083.1	1045.4	990.5	925.9	875.6	872.9
42.5°	4634.0	3084.8	1381.2	1065.1	1048.9	998.6	941.1	883.7	844.1	843.3
45°	4984.2	2924.1	1154.9	999.5	1013.0	956.5	905.2	858.6	828.0	821.7
47.5°	5313.8	2696.9	995.9	930.4	977.1	933.0	890.0	846.0	816.3	811.8
50°	5696.4	2451.7	884.5	863.1	945.6	925.0	902.5	856.7	807.3	802.0
52.5°	6159.8	2239.8	797.5	803.7	921.4	935.8	934.9	887.3	801.1	793.9
55°	6677.0	2004.5	731.9	755.2	911.6	955.5	943.0	916.1	806.5	795.7
57.5°	7186.2	1729.7	686.1	718.4	897.1	953.7	904.4	865.7	819.1	803.7
60°	7567.9	1360.5	651.1	686.1	865.7	924.1	862.1	811.0	816.3	804.7
62.5°	7593.1	1051.6	608.9	658.3	818.2	894.5	834.3	786.6	828.0	817.2
65°	7146.7	794.7	568.5	625.0	766.9	875.6	807.3	773.2	852.2	840.6
67.5°	6017.0	639.4	534.4	591.0	715.8	836.1	783.1	760.7	873.8	853.1
70°	4343.9	545.1	501.1	549.6	669.9	791.2	761.6	738.2	815.4	783.1
72.5°	2674.4	472.4	463.4	494.8	634.9	744.5	729.3	696.0	734.6	708.6
75°	1335.4	409.5	421.1	441.0	585.5	691.5	675.4	642.1	647.5	642.1
77.5°	639.4	350.3	371.8	387.1	521.8	631.4	614.3	580.1	573.9	574.8
80°	405.0	292.8	313.4	324.2	466.1	561.3	544.2	510.1	582.0	539.7
82.5°	253.3	237.9	243.4	263.1	405.9	488.6	466.1	435.6	524.5	414.9
85°	140.1	166.1	173.3	190.4	312.5	408.6	386.2	347.6	311.6	306.3
87.5°	83.5	98.8	101.5	114.1	210.1	295.4	261.4	247.9	205.6	204.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)