

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: P193182

Luminaire Tested: **GLEON-AF-04-LED-E1-T3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193182
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-04-LED-E1-T3-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18766.3 lumens
Efficiency: N/A
Efficacy: 109.7 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): 171
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



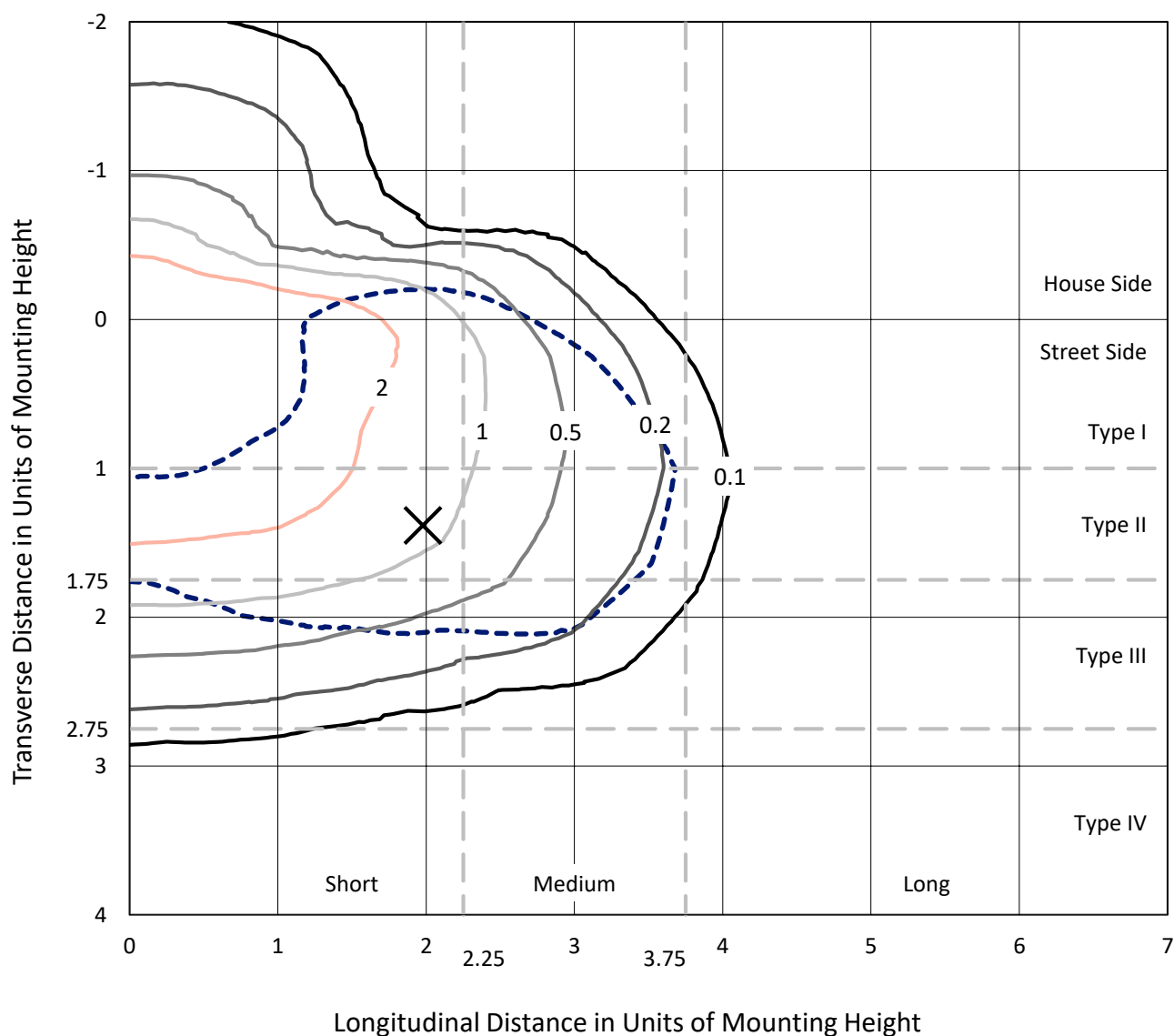
REPORT NUMBER: P193182

CATALOG NUMBER: GLEON-AF-04-LED-E1-T3-7030-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

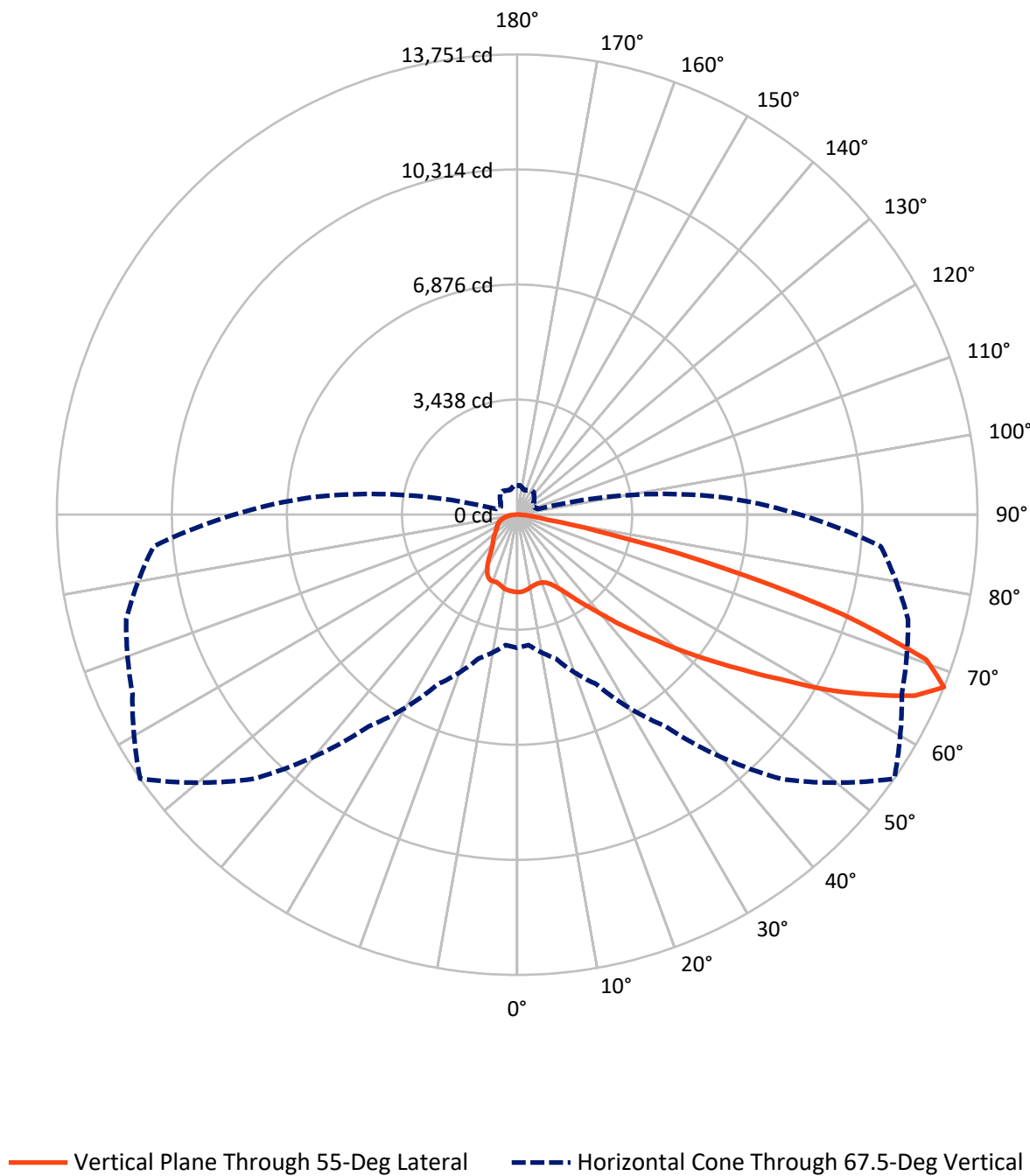


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P193182

CATALOG NUMBER: GLEON-AF-04-LED-E1-T3-7030-800

Luminous Intensity Polar Plot



REPORT NUMBER: P193182

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4053.9	0.0	4053.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	14712.4	0.0	14712.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	18766.3	0.0	18766.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.0	1.2
10°-20°	611.7	3.3
20°-30°	1024.7	5.5
30°-40°	1685.1	9.0
40°-50°	2836.5	15.1
50°-60°	4464.5	23.8
60°-70°	5327.9	28.4
70°-80°	2287.9	12.2
80°-90°	311.9	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°	18766.3	100.0
0°-180°	18766.3	100.0

Coefficient of Utilization



REPORT NUMBER: P193182

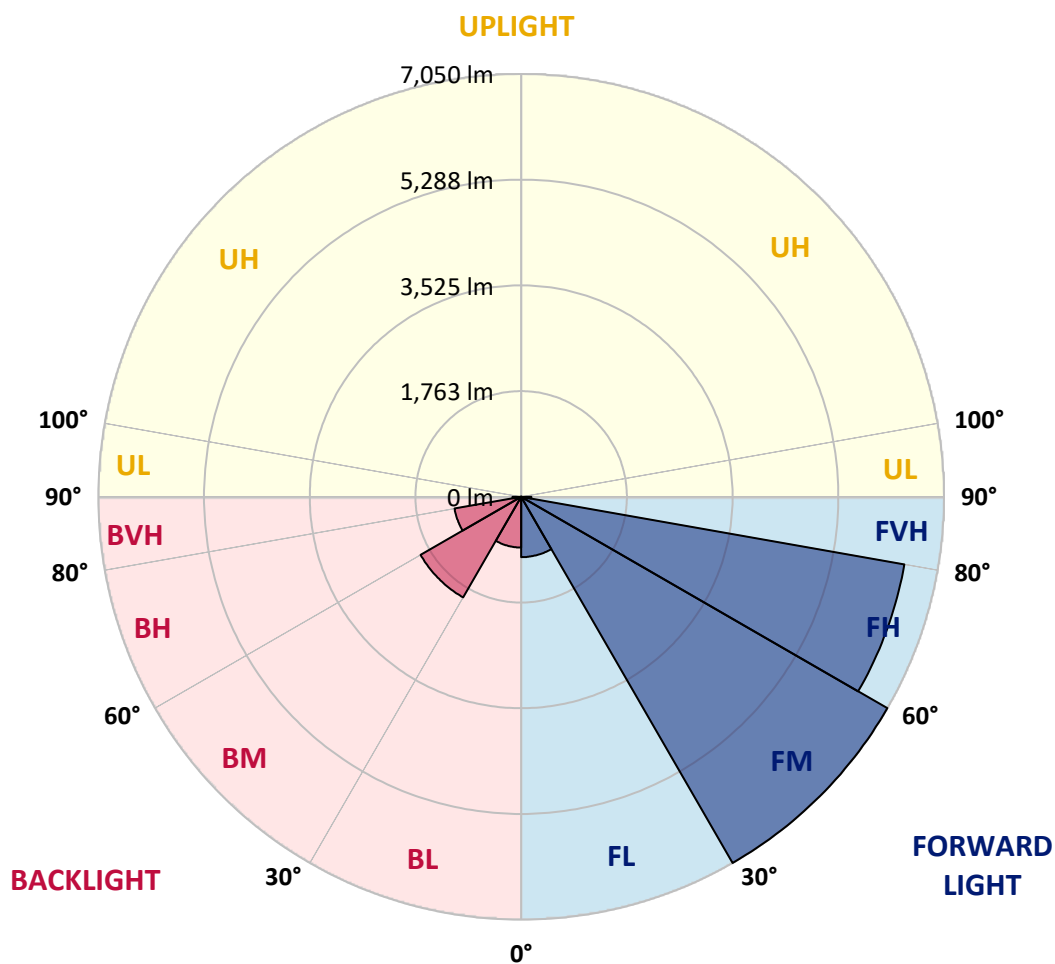
CATALOG NUMBER: GLEON-AF-04-LED-E1-T3-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1005.9	5.4			
FM	(30°-60°)	7050.0	37.6			
FH	(60°-80°)	6487.6	34.6			G3/7500
FVH	(80°-90°)	168.9	0.9			G2/225
BL	(0°-30°)	846.5	4.5	B2/1000		
BM	(30°-60°)	1936.1	10.3	B2/2500		
BH	(60°-80°)	1128.2	6.0	B3/2500		G3/2500
BVH	(80°-90°)	143.1	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-G3

Type III Short



REPORT NUMBER: P193182

CATALOG NUMBER: GLEON-AF-04-LED-E1-T3-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2314.1	2314.1	2314.1	2314.1	2314.1	2314.1	2314.1	2314.1	2314.1	2314.1	2314.1
2.5°	2294.1	2295.1	2296.8	2304.2	2310.5	2308.6	2309.5	2305.9	2305.1	2299.6	2305.1
5°	2265.2	2267.9	2268.8	2280.6	2287.8	2289.6	2286.9	2282.4	2277.0	2271.5	2274.2
7.5°	2199.0	2206.3	2207.1	2223.4	2235.2	2250.6	2251.5	2252.5	2249.7	2246.2	2251.5
10°	2157.4	2159.1	2158.2	2170.0	2179.0	2196.2	2206.3	2223.4	2230.7	2232.5	2236.1
12.5°	2154.6	2152.7	2150.0	2150.0	2147.3	2154.6	2172.7	2197.2	2214.3	2219.8	2224.4
15°	2183.5	2182.7	2173.6	2160.0	2142.8	2137.3	2152.7	2179.9	2202.5	2214.3	2218.9
17.5°	2248.9	2243.4	2228.9	2198.1	2160.9	2146.4	2148.2	2170.9	2197.2	2212.6	2217.1
20°	2368.5	2368.5	2337.7	2279.7	2213.5	2179.0	2162.7	2176.3	2201.7	2222.6	2228.9
22.5°	2575.1	2577.0	2525.3	2430.2	2318.6	2245.2	2204.5	2201.7	2231.6	2255.2	2262.4
25°	2867.9	2860.6	2788.2	2652.2	2482.7	2361.2	2290.5	2274.2	2299.6	2325.9	2335.0
27.5°	3208.7	3182.5	3096.3	2932.3	2712.9	2535.3	2426.5	2400.2	2424.7	2454.6	2463.7
30°	3545.9	3518.7	3416.3	3236.8	2993.0	2768.2	2612.3	2569.7	2604.2	2646.8	2652.2
32.5°	3883.1	3883.1	3768.9	3559.5	3293.9	3046.4	2859.8	2809.0	2866.1	2917.8	2929.6
35°	4286.5	4288.3	4177.7	3925.6	3640.2	3378.2	3172.5	3135.3	3221.4	3257.7	3285.8
37.5°	4782.3	4792.2	4650.0	4345.3	4032.6	3757.1	3512.3	3461.7	3547.7	3646.5	3737.2
40°	5317.9	5330.6	5173.9	4798.5	4485.8	4197.6	3933.0	3841.4	3984.6	4173.1	4290.1
42.5°	5829.2	5894.4	5743.1	5357.0	5020.7	4722.5	4454.2	4320.8	4500.4	4785.0	4886.5
45°	6567.9	6615.1	6351.3	6001.4	5685.1	5351.5	4996.2	4855.7	5106.8	5465.7	5486.6
47.5°	7060.2	7024.9	6890.7	6673.1	6472.7	6160.9	5626.2	5472.0	5805.6	6228.0	6111.1
50°	7322.1	7332.9	7314.8	7327.5	7334.8	7139.0	6398.4	6187.3	6585.2	7095.6	6826.3
52.5°	7566.9	7494.3	7554.1	7851.5	8210.4	8137.8	7238.7	7018.5	7420.9	8058.1	7582.3
55°	7561.4	7450.8	7645.6	8170.5	8949.1	9032.5	8182.3	7928.5	8304.7	9090.5	8383.5
57.5°	7294.0	7299.4	7599.4	8286.6	9463.9	9873.6	9277.2	8896.6	9241.9	10136.5	9115.0
60°	6926.0	6975.8	7408.3	8267.5	9876.4	10563.4	10620.5	9939.9	10160.1	11087.4	9720.5
62.5°	6332.2	6384.9	6981.2	8069.9	9813.8	11227.9	11835.2	11123.5	11120.0	11663.9	9898.2
65°	5396.0	5380.6	6006.8	7331.2	9289.0	11719.1	13041.6	12147.0	11843.3	11672.9	9541.1
67.5°	3979.2	3910.3	4447.8	5583.5	7721.0	11168.9	13751.4	12680.0	12089.9	10905.1	8449.7
70°	2064.8	1995.9	2431.0	3260.4	5077.9	8717.0	12965.5	12404.4	11545.1	9141.2	6619.6
72.5°	882.9	871.2	1047.8	1430.3	2456.3	5027.9	10166.5	10736.6	9906.3	6810.9	4551.2
75°	593.8	590.1	656.2	779.6	1104.9	2040.3	6362.1	7621.2	7247.7	4223.0	2559.7
77.5°	465.9	461.4	500.3	560.2	716.0	804.9	2823.5	4091.5	3787.0	1838.2	1120.4
80°	364.4	360.8	385.2	417.8	514.8	507.6	929.0	1628.0	1260.0	704.2	544.7
82.5°	287.4	287.4	307.2	308.2	365.3	346.3	484.9	717.0	629.0	410.6	333.6
85°	262.9	262.9	283.7	230.2	238.4	218.4	300.9	425.1	398.8	168.6	145.0
87.5°	132.3	128.7	238.4	204.0	129.6	116.1	146.9	205.7	221.1	93.3	72.5
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: P193182

CATALOG NUMBER: GLEON-AF-04-LED-E1-T3-7030-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2314.1	2314.1	2314.1	2314.1	2314.1	2314.1	2314.1	2314.1	2314.1	2314.1
2.5°	2303.1	2302.3	2304.2	2305.1	2312.3	2322.3	2326.7	2333.1	2336.7	2335.0
5°	2276.0	2277.8	2285.0	2290.5	2303.1	2319.6	2328.7	2335.9	2342.2	2339.5
7.5°	2253.4	2258.0	2268.8	2273.3	2280.6	2285.0	2284.2	2286.9	2292.4	2286.0
10°	2240.7	2246.2	2254.2	2247.9	2230.7	2206.3	2183.5	2171.7	2175.5	2170.9
12.5°	2228.1	2235.2	2228.9	2199.0	2151.0	2119.2	2102.0	2103.8	2112.0	2113.7
15°	2220.7	2223.4	2196.2	2140.1	2091.1	2086.7	2095.7	2093.9	2094.7	2094.7
17.5°	2220.7	2213.5	2162.7	2106.5	2085.6	2077.6	2049.3	2014.0	1998.7	1993.2
20°	2232.5	2213.5	2151.9	2114.7	2069.4	1999.6	1925.2	1860.0	1830.9	1822.8
22.5°	2267.9	2235.2	2182.7	2118.3	1989.6	1872.7	1754.8	1676.9	1624.3	1615.3
25°	2339.5	2303.1	2243.4	2070.3	1862.7	1695.9	1561.8	1474.8	1422.2	1414.9
27.5°	2464.6	2441.0	2276.0	1964.3	1694.1	1515.5	1391.3	1324.3	1285.3	1282.6
30°	2653.2	2641.4	2259.7	1807.3	1486.6	1340.6	1280.7	1241.8	1212.8	1211.9
32.5°	2954.1	2858.9	2206.3	1616.2	1297.1	1216.4	1191.9	1168.4	1145.7	1145.7
35°	3341.0	3034.6	2104.7	1411.3	1181.9	1147.5	1116.7	1079.6	1049.7	1047.8
37.5°	3796.1	3143.5	1922.5	1246.3	1127.5	1101.4	1056.0	1000.7	948.2	939.1
40°	4255.6	3176.0	1665.9	1144.8	1093.1	1055.1	999.8	934.5	883.8	881.0
42.5°	4677.2	3113.6	1394.0	1075.0	1058.7	1007.9	949.9	891.9	852.0	851.1
45°	5030.7	2951.3	1165.7	1008.9	1022.4	965.3	913.6	866.5	835.8	829.4
47.5°	5363.3	2721.9	1005.1	939.1	986.2	941.9	898.2	853.9	824.0	819.5
50°	5749.4	2474.5	892.8	871.2	954.5	933.6	911.0	864.7	814.8	809.4
52.5°	6217.2	2260.6	804.9	811.2	930.1	944.5	943.6	895.6	808.5	801.3
55°	6739.2	2023.2	738.7	762.3	920.1	964.4	951.7	924.6	814.0	803.0
57.5°	7253.1	1745.8	692.4	725.2	905.5	962.6	912.8	873.7	826.6	811.2
60°	7638.5	1373.3	657.2	692.4	873.7	932.7	870.1	818.5	824.0	812.2
62.5°	7663.8	1061.5	614.6	664.4	825.8	902.8	842.1	794.0	835.8	824.8
65°	7213.3	802.2	573.7	630.9	774.1	883.8	814.8	780.4	860.2	848.4
67.5°	6073.0	645.4	539.3	596.4	722.4	843.9	790.4	767.8	881.9	861.1
70°	4384.3	550.2	505.8	554.7	676.2	798.5	768.6	745.0	823.0	790.4
72.5°	2699.4	476.8	467.7	499.5	640.8	751.3	736.0	702.4	741.5	715.2
75°	1347.8	413.3	425.1	445.0	591.0	697.9	681.7	648.1	653.5	648.1
77.5°	645.4	353.5	375.3	390.7	526.6	637.2	620.0	585.5	579.2	580.0
80°	408.8	295.5	316.3	327.2	470.5	566.5	549.2	514.8	587.4	544.7
82.5°	255.5	240.2	245.7	265.6	409.7	493.1	470.5	439.7	529.4	418.8
85°	141.4	167.7	175.0	192.2	315.4	412.5	389.7	350.8	314.5	309.1
87.5°	84.3	99.8	102.3	115.2	212.1	298.2	263.8	250.2	207.6	206.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)