

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: P193173

Luminaire Tested: **GLEON-AF-05-LED-E1-T3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193173
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-T3-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 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: 18960.9 lumens
Efficiency: N/A
Efficacy: 117.0 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 - G3

Input Watts (W): 162
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



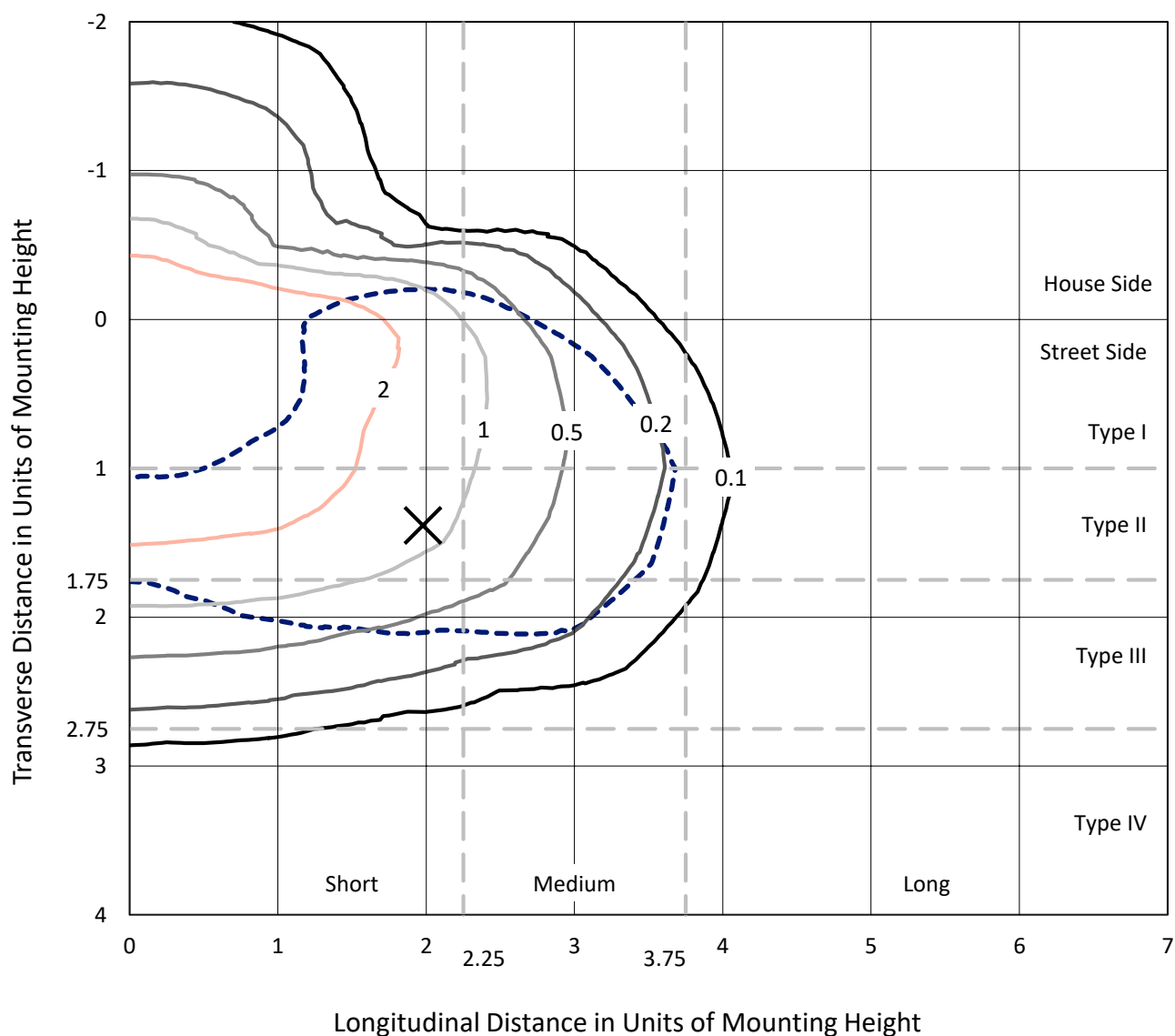
REPORT NUMBER: P193173

CATALOG NUMBER: GLEON-AF-05-LED-E1-T3-7030-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

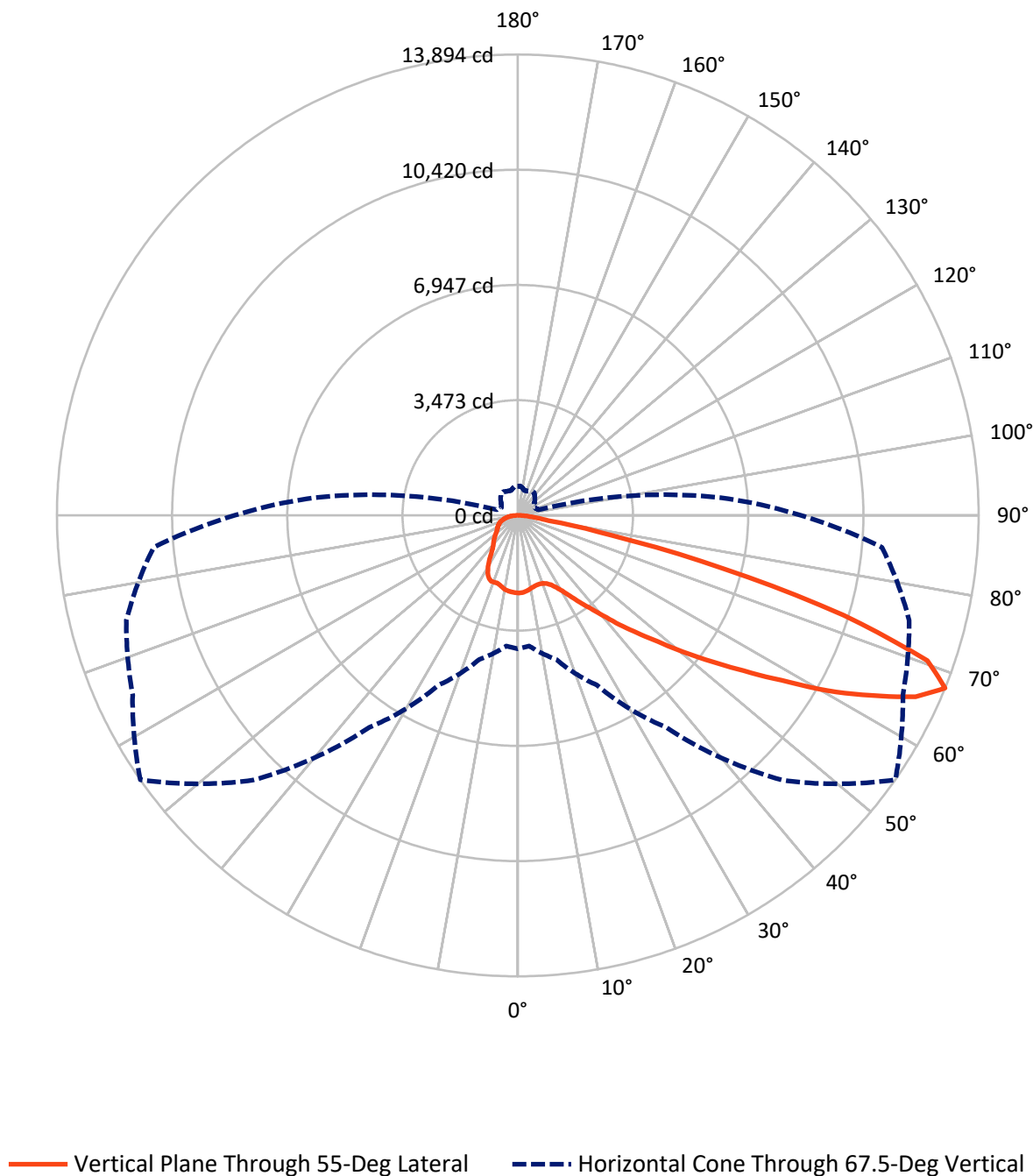


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
Type III - Short - Full Cutoff

REPORT NUMBER: P193173

CATALOG NUMBER: GLEON-AF-05-LED-E1-T3-7030-600

Luminous Intensity Polar Plot



REPORT NUMBER: P193173

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4096.0	0.0	4096.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	14864.9	0.0	14864.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	18960.9	0.0	18960.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.2	1.2
10°-20°	618.1	3.3
20°-30°	1035.3	5.5
30°-40°	1702.6	9.0
40°-50°	2865.9	15.1
50°-60°	4510.8	23.8
60°-70°	5383.1	28.4
70°-80°	2311.6	12.2
80°-90°	315.2	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°	18960.9	100.0
0°-180°	18960.9	100.0

Coefficient of Utilization



REPORT NUMBER: P193173

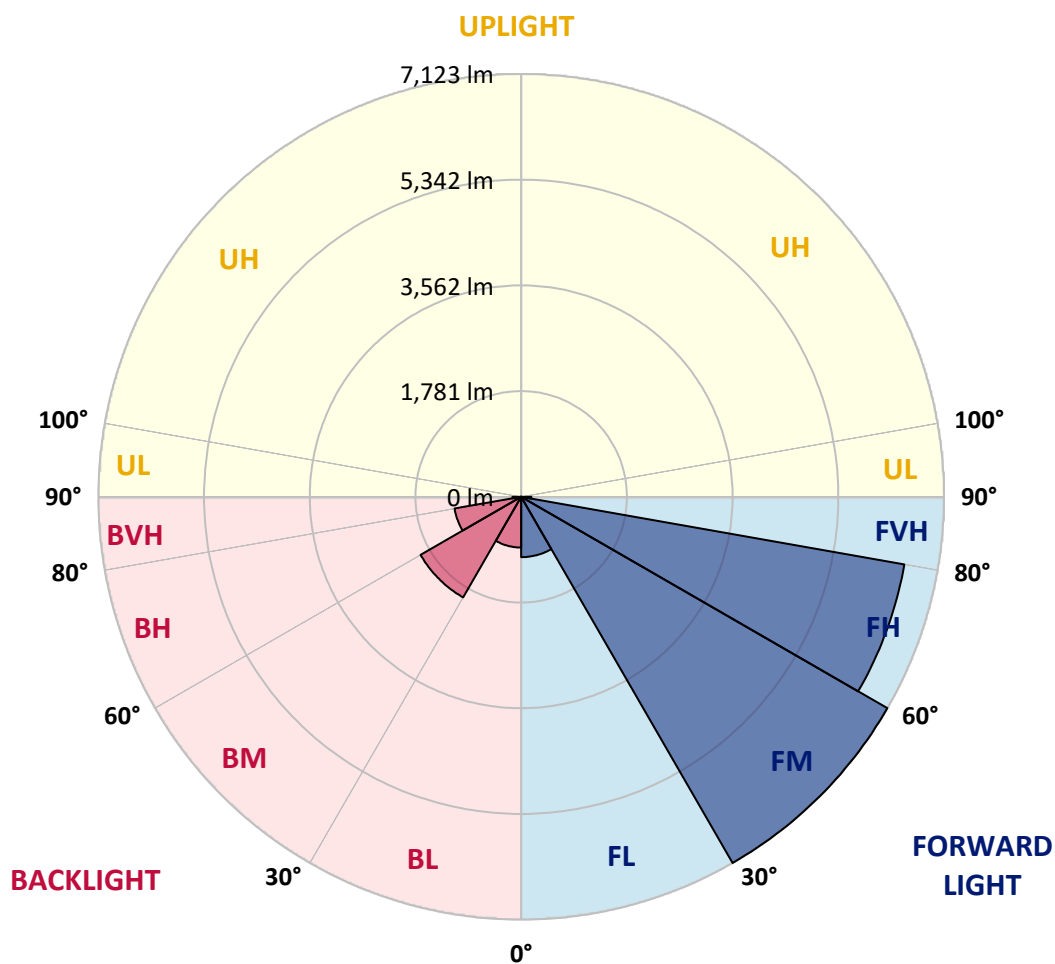
CATALOG NUMBER: GLEON-AF-05-LED-E1-T3-7030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1016.3	5.4			
FM	(30°-60°)	7123.1	37.6			
FH	(60°-80°)	6554.9	34.6			G3/7500
FVH	(80°-90°)	170.6	0.9			G2/225
BL	(0°-30°)	855.3	4.5	B2/1000		
BM	(30°-60°)	1956.2	10.3	B2/2500		
BH	(60°-80°)	1139.9	6.0	B3/2500		G3/2500
BVH	(80°-90°)	144.6	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-G3

Type III Short



REPORT NUMBER: P193173

CATALOG NUMBER: GLEON-AF-05-LED-E1-T3-7030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0
2.5°	2317.9	2318.8	2320.6	2328.0	2334.5	2332.5	2333.4	2329.9	2329.0	2323.4	2329.0
5°	2288.7	2291.3	2292.3	2304.2	2311.5	2313.3	2310.7	2306.0	2300.6	2295.0	2297.8
7.5°	2221.8	2229.1	2230.0	2246.5	2258.4	2274.0	2274.9	2275.8	2273.0	2269.5	2274.9
10°	2179.6	2181.5	2180.6	2192.5	2201.6	2219.0	2229.1	2246.5	2253.8	2255.6	2259.4
12.5°	2176.9	2175.1	2172.3	2172.3	2169.6	2176.9	2195.2	2219.9	2237.3	2242.9	2247.5
15°	2206.2	2205.3	2196.1	2182.4	2165.0	2159.5	2175.1	2202.5	2225.4	2237.3	2241.9
17.5°	2272.1	2266.7	2252.0	2220.8	2183.3	2168.7	2170.4	2193.4	2219.9	2235.6	2240.1
20°	2393.0	2393.0	2361.8	2303.3	2236.4	2201.6	2185.1	2198.9	2224.5	2245.6	2252.0
22.5°	2601.8	2603.6	2551.4	2455.3	2342.6	2268.4	2227.2	2224.5	2254.8	2278.6	2285.9
25°	2897.7	2890.4	2817.0	2679.7	2508.4	2385.6	2314.2	2297.8	2323.4	2349.9	2359.1
27.5°	3241.9	3215.4	3128.4	2962.7	2741.0	2561.6	2451.7	2425.1	2449.8	2480.0	2489.2
30°	3582.7	3555.2	3451.7	3270.3	3024.1	2796.9	2639.3	2596.3	2631.2	2674.2	2679.7
32.5°	3923.4	3923.4	3808.0	3596.4	3328.0	3078.1	2889.4	2838.1	2895.8	2948.1	2960.0
35°	4330.9	4332.6	4221.0	3966.4	3677.8	3413.3	3205.3	3167.9	3254.9	3291.4	3319.9
37.5°	4831.9	4842.0	4698.1	4390.5	4074.5	3796.1	3548.7	3497.5	3584.5	3684.3	3775.9
40°	5373.1	5385.9	5227.5	4848.4	4532.4	4241.1	3973.8	3881.2	4025.8	4216.5	4334.6
42.5°	5889.6	5955.5	5802.6	5412.4	5072.7	4771.4	4500.3	4365.7	4547.1	4834.6	4937.2
45°	6636.0	6683.6	6417.2	6063.7	5744.0	5407.0	5048.0	4906.1	5159.7	5522.4	5543.5
47.5°	7133.3	7097.6	6962.0	6742.3	6539.8	6224.8	5684.4	5528.7	5865.8	6292.6	6174.5
50°	7398.0	7409.0	7390.7	7403.5	7410.8	7213.0	6464.8	6251.4	6653.5	7169.0	6897.0
52.5°	7645.2	7572.0	7632.5	7932.8	8295.5	8222.2	7313.7	7091.2	7497.8	8141.6	7660.8
55°	7639.7	7528.0	7724.9	8255.2	9041.9	9126.1	8267.1	8010.7	8390.7	9184.8	8470.5
57.5°	7369.5	7375.1	7678.2	8372.4	9562.1	9976.0	9373.4	8988.8	9337.7	10241.5	9209.5
60°	6997.7	7048.1	7485.1	8353.2	9978.7	10672.9	10730.6	10042.9	10265.4	11202.3	9821.2
62.5°	6397.9	6451.0	7053.7	8153.5	9915.5	11344.2	11957.8	11239.0	11235.2	11784.7	10000.7
65°	5451.8	5436.3	6069.2	7407.1	9385.3	11840.7	13176.7	12272.9	11966.1	11793.9	9639.8
67.5°	4020.4	3950.9	4494.0	5641.4	7800.9	11284.8	13893.9	12811.4	12215.1	11018.1	8537.2
70°	2086.2	2016.6	2456.2	3294.1	5130.4	8807.4	13099.8	12532.9	11664.7	9236.0	6688.2
72.5°	892.0	880.1	1058.7	1445.2	2481.9	5080.0	10271.8	10847.8	10008.9	6881.4	4598.2
75°	599.9	596.2	663.1	787.6	1116.4	2061.5	6428.2	7700.1	7322.9	4266.8	2586.2
77.5°	470.7	466.1	505.6	566.0	723.6	813.2	2852.8	4134.1	3826.3	1857.3	1131.9
80°	368.2	364.5	389.2	422.2	520.2	512.9	938.7	1644.8	1273.0	711.6	550.4
82.5°	290.3	290.3	310.6	311.4	369.1	349.8	489.9	724.4	635.6	414.8	337.1
85°	265.6	265.6	286.7	232.6	240.8	220.7	304.1	429.5	402.9	170.3	146.5
87.5°	133.8	130.0	240.8	206.1	131.0	117.2	148.4	207.9	223.4	94.3	73.3
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: P193173

CATALOG NUMBER: GLEON-AF-05-LED-E1-T3-7030-600

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0	2338.0
2.5°	2327.1	2326.1	2328.0	2329.0	2336.3	2346.4	2350.9	2357.3	2361.0	2359.1
5°	2299.6	2301.4	2308.7	2314.2	2327.1	2343.6	2352.7	2360.1	2366.4	2363.8
7.5°	2276.8	2281.4	2292.3	2296.8	2304.2	2308.7	2307.9	2310.7	2316.1	2309.7
10°	2263.9	2269.5	2277.6	2271.2	2253.8	2229.1	2206.2	2194.3	2198.0	2193.4
12.5°	2251.1	2258.4	2252.0	2221.8	2173.2	2141.2	2123.8	2125.6	2133.9	2135.7
15°	2243.7	2246.5	2219.0	2162.2	2112.7	2108.1	2117.3	2115.6	2116.5	2116.5
17.5°	2243.7	2236.4	2185.1	2128.4	2107.3	2099.1	2070.7	2035.0	2019.3	2013.8
20°	2255.6	2236.4	2174.2	2136.6	2090.7	2020.3	1945.2	1879.3	1850.0	1841.7
22.5°	2291.3	2258.4	2205.3	2140.3	2010.3	1892.1	1773.1	1694.3	1641.2	1632.0
25°	2363.8	2327.1	2266.7	2091.8	1882.0	1713.5	1577.9	1490.1	1436.9	1429.5
27.5°	2490.1	2466.3	2299.6	1984.5	1711.6	1531.3	1405.7	1338.0	1298.6	1296.0
30°	2680.5	2668.6	2283.1	1826.2	1502.0	1354.5	1294.0	1254.7	1225.4	1224.5
32.5°	2984.6	2888.5	2229.1	1632.9	1310.6	1229.0	1204.2	1180.4	1157.6	1157.6
35°	3375.7	3066.2	2126.5	1426.0	1194.2	1159.5	1128.3	1090.7	1060.5	1058.7
37.5°	3835.4	3176.0	1942.4	1259.2	1139.2	1112.7	1066.9	1011.0	957.9	948.8
40°	4299.8	3209.1	1683.2	1156.7	1104.5	1066.1	1010.1	944.2	892.9	890.1
42.5°	4725.6	3145.8	1408.6	1086.1	1069.6	1018.4	959.8	901.2	860.9	860.0
45°	5082.7	2981.9	1177.7	1019.3	1033.0	975.3	923.1	875.5	844.3	838.0
47.5°	5418.9	2750.2	1015.7	948.8	996.5	951.5	907.6	862.7	832.4	827.8
50°	5809.0	2500.2	902.1	880.1	964.3	943.4	920.4	873.6	823.3	817.8
52.5°	6281.6	2284.1	813.2	819.7	939.6	954.3	953.4	904.7	816.9	809.6
55°	6809.1	2044.1	746.4	770.2	929.6	974.5	961.6	934.1	822.4	811.4
57.5°	7328.3	1763.9	699.7	732.7	914.9	972.6	922.2	882.9	835.2	819.7
60°	7717.6	1387.5	664.0	699.7	882.9	942.4	879.2	827.0	832.4	820.5
62.5°	7743.2	1072.4	620.9	671.3	834.3	912.2	850.8	802.3	844.3	833.4
65°	7288.0	810.4	579.7	637.4	782.1	892.9	823.3	788.6	869.1	857.2
67.5°	6136.0	652.1	544.8	602.6	729.9	852.7	798.5	775.7	891.1	870.0
70°	4429.8	555.9	511.0	560.5	683.2	806.9	776.7	752.8	831.6	798.5
72.5°	2727.3	481.8	472.5	504.7	647.5	759.3	743.6	709.7	749.2	722.5
75°	1361.8	417.6	429.5	449.7	597.1	705.2	688.7	654.8	660.3	654.8
77.5°	652.1	357.2	379.1	394.8	532.1	643.9	626.4	591.6	585.2	586.1
80°	413.0	298.6	319.6	330.6	475.3	572.4	555.0	520.2	593.5	550.4
82.5°	258.3	242.7	248.2	268.3	414.0	498.2	475.3	444.1	534.9	423.2
85°	142.9	169.5	176.8	194.2	318.7	416.8	393.8	354.4	317.8	312.3
87.5°	85.2	100.7	103.5	116.4	214.2	301.3	266.5	252.7	209.7	208.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)