

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: P200338

Luminaire Tested: **GWC-AF-02-LED-E1-T2-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200338
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-T2-7050-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13373 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

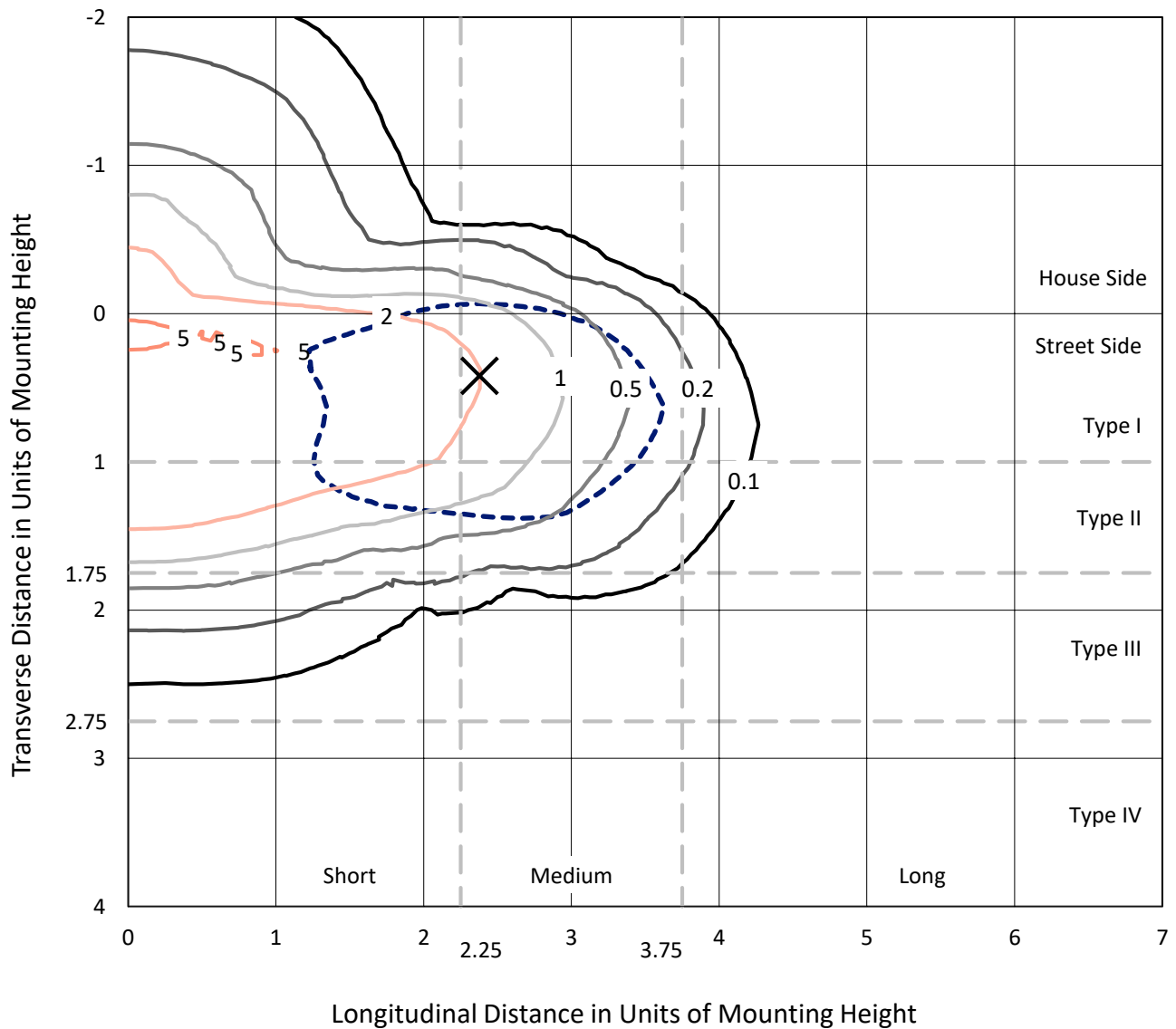
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P200338
 CATALOG NUMBER: GWC-AF-02-LED-E1-T2-7050-1200

Iso-Footcandle Lines of Horizontal Illumination

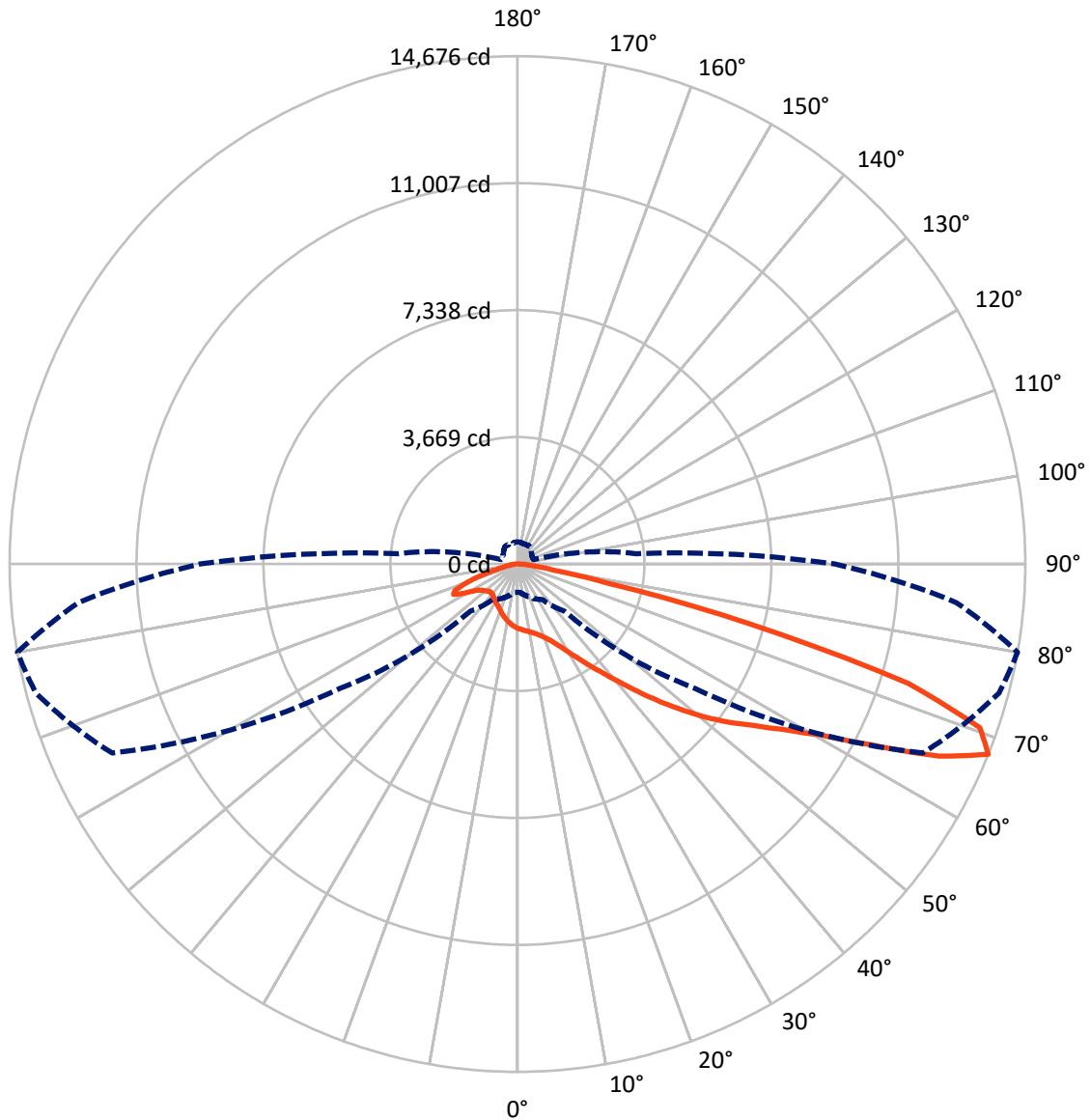
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P200338
CATALOG NUMBER: GWC-AF-02-LED-E1-T2-7050-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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CATALOG NUMBER: GWC-AF-02-LED-E1-T2-7050-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2462.8	0.0	2462.8
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	10910.2	0.0	10910.2
	% Fixture	81.6	0.0	81.6
Total	Lumens	13373.0	0.0	13373.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.4	1.3
10°-20°	493.7	3.7
20°-30°	817.2	6.1
30°-40°	1336.7	10.0
40°-50°	2158.2	16.1
50°-60°	3115.9	23.3
60°-70°	3438.6	25.7
70°-80°	1585.0	11.9
80°-90°	256.4	1.9
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°	13373.0	100.0
0°-180°	13373.0	100.0



REPORT NUMBER: P200338

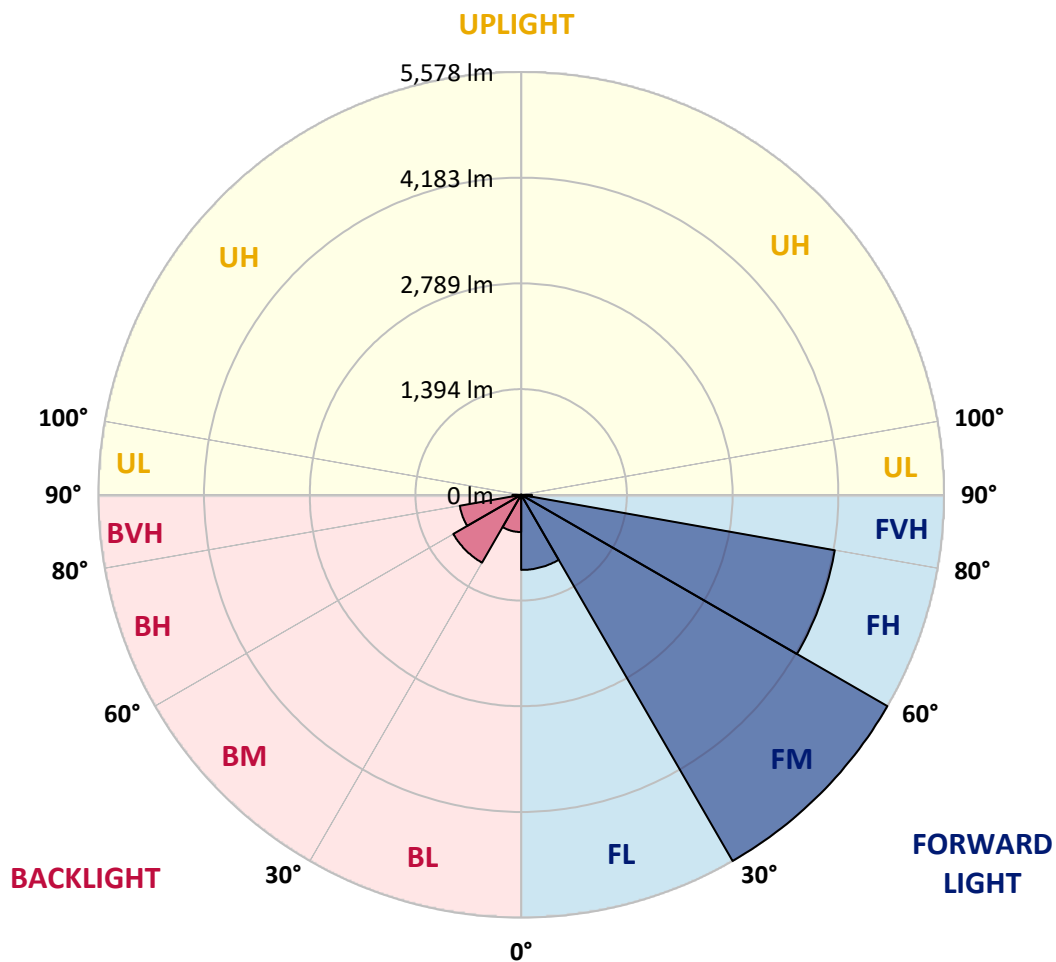
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	990.9	7.4			
FM (30°-60°)	5577.5	41.7			
FH (60°-80°)	4200.8	31.4			G2/5000
FVH (80°-90°)	140.9	1.1			G2/225
BL (0°-30°)	491.4	3.7	B1/500		
BM (30°-60°)	1033.3	7.7	B2/2500		
BH (60°-80°)	822.7	6.2	B2/1000		G2/1000
BVH (80°-90°)	115.4	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





REPORT NUMBER: P200338

CATALOG NUMBER: GWC-AF-02-LED-E1-T2-7050-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1857.9	1857.9	1857.9	1857.9	1857.9	1857.9	1857.9	1857.9	1857.9	1857.9	1857.9
2.5°	2032.4	2020.5	2022.5	2019.2	2009.3	1992.2	1973.8	1940.2	1905.3	1886.9	1872.4
5°	2202.2	2198.9	2194.3	2183.8	2158.8	2123.2	2079.1	2019.9	1956.0	1922.4	1890.2
7.5°	2329.3	2327.3	2321.4	2314.8	2290.4	2247.6	2181.2	2096.9	2004.1	1958.0	1907.9
10°	2339.8	2343.1	2347.7	2365.5	2368.8	2345.7	2277.9	2175.9	2054.1	1994.8	1931.0
12.5°	2250.3	2257.5	2275.3	2320.7	2368.8	2397.1	2362.2	2258.8	2112.7	2040.9	1959.9
15°	2131.8	2135.7	2157.5	2220.0	2306.2	2393.8	2426.7	2350.4	2188.4	2100.2	2003.4
17.5°	2081.1	2083.1	2098.2	2139.7	2220.0	2345.1	2462.9	2449.8	2281.2	2173.9	2056.7
20°	2055.4	2060.0	2081.7	2122.6	2173.3	2282.5	2468.2	2557.1	2391.8	2266.1	2123.9
22.5°	2128.5	2126.5	2134.4	2154.8	2197.6	2263.4	2464.3	2667.7	2532.7	2384.6	2211.4
25°	2299.0	2306.2	2292.4	2269.4	2283.2	2329.3	2485.3	2787.5	2709.2	2536.7	2326.0
27.5°	2541.9	2534.7	2514.3	2460.3	2432.0	2451.7	2555.1	2916.5	2928.4	2736.8	2477.4
30°	2784.2	2778.3	2758.5	2692.7	2634.8	2618.3	2690.7	3064.7	3189.8	2977.1	2663.1
32.5°	3035.7	3029.1	3010.7	2944.9	2875.1	2836.9	2883.6	3235.9	3497.9	3264.2	2881.7
35°	3345.8	3333.3	3294.4	3202.9	3134.5	3104.8	3126.6	3451.1	3853.4	3603.9	3147.0
37.5°	3637.5	3656.5	3617.0	3490.6	3401.8	3391.2	3415.6	3713.8	4236.6	3983.8	3451.8
40°	3930.4	3933.7	3898.2	3794.8	3703.3	3686.2	3747.4	4032.5	4688.9	4438.0	3822.5
42.5°	4233.3	4239.9	4179.9	4084.5	4017.3	4020.6	4090.4	4405.8	5207.6	4973.3	4249.1
45°	4592.1	4602.0	4536.1	4411.0	4349.8	4472.9	4443.9	4824.5	5776.5	5581.6	4738.9
47.5°	4967.3	4982.5	4932.5	4815.3	4738.9	4908.1	4797.5	5288.6	6388.7	6234.0	5276.8
50°	5172.1	5193.8	5242.5	5234.0	5217.5	5189.2	5191.8	5786.3	7020.1	6913.5	5829.8
52.5°	5062.1	5061.5	5239.2	5455.2	5685.6	5702.7	5672.5	6311.1	7610.0	7577.8	6350.6
55°	4559.2	4593.4	4862.7	5280.7	5910.1	6303.2	6392.7	6912.1	8189.4	8226.9	6879.2
57.5°	3721.7	3750.0	4113.4	4696.1	5607.3	6660.0	7417.1	7785.8	8837.2	9012.3	7583.0
60°	2524.2	2558.4	2943.5	3643.4	4792.2	6461.2	8392.1	9344.8	9612.7	10011.1	8570.6
62.5°	1483.3	1514.2	1828.3	2298.3	3374.1	5537.5	8820.1	11562.8	10844.5	11518.0	10076.9
65°	1021.1	1042.2	1194.9	1430.6	1938.9	3729.6	8289.4	13094.2	12740.0	13385.2	11823.5
67.5°	821.6	819.0	940.1	1100.8	1248.3	1923.1	6268.3	12921.0	14406.9	14676.2	12730.1
70°	676.8	674.2	756.5	889.4	997.4	1083.0	3414.3	10903.8	14067.2	14176.5	11895.3
72.5°	566.2	568.8	621.5	720.2	818.3	815.7	1500.4	7670.6	11066.4	11822.2	9482.4
75°	478.0	479.3	514.2	584.0	664.3	657.0	813.7	4155.6	6432.9	6958.9	5256.4
77.5°	406.9	408.2	430.6	469.4	526.7	524.1	593.8	1795.4	2683.5	2650.6	1798.0
80°	362.8	362.8	373.3	380.5	412.1	400.3	440.4	862.5	1134.4	1047.5	717.6
82.5°	284.4	285.7	350.2	347.6	324.6	309.4	309.4	508.3	601.1	555.7	420.0
85°	160.0	159.3	225.8	272.6	285.7	217.9	215.9	284.4	327.2	288.4	203.4
87.5°	68.5	69.8	104.7	121.1	162.0	135.6	133.6	146.8	166.6	144.2	94.1
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: P200338

CATALOG NUMBER: GWC-AF-02-LED-E1-T2-7050-1200

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1857.9	1857.9	1857.9	1857.9	1857.9	1857.9	1857.9	1857.9	1857.9	1857.9	1857.9
2.5°	1858.6	1841.4	1803.9	1757.2	1715.0	1687.4	1662.4	1626.2	1628.1	1603.1	1584.7
5°	1857.2	1821.7	1734.8	1631.4	1532.0	1460.2	1406.3	1357.5	1345.7	1322.7	1308.8
7.5°	1858.6	1800.6	1654.5	1489.2	1366.1	1275.2	1229.2	1203.5	1197.6	1189.7	1190.3
10°	1863.2	1781.5	1566.2	1356.2	1227.2	1167.3	1156.1	1164.0	1173.2	1175.8	1176.5
12.5°	1873.7	1764.4	1469.5	1237.7	1140.3	1121.8	1140.9	1167.9	1185.7	1194.3	1193.6
15°	1897.4	1751.2	1376.6	1144.9	1092.2	1102.1	1137.7	1175.8	1201.5	1213.4	1214.0
17.5°	1923.1	1732.2	1281.2	1073.8	1056.7	1081.7	1125.8	1170.6	1202.2	1215.3	1218.0
20°	1956.7	1708.5	1181.1	1020.5	1023.1	1051.4	1092.9	1137.7	1172.5	1183.7	1189.0
22.5°	2000.8	1682.8	1093.5	977.0	984.9	1006.6	1038.9	1077.7	1108.0	1113.3	1117.9
25°	2060.0	1655.1	1023.8	937.5	940.8	953.3	975.0	998.1	1019.1	1013.2	1017.8
27.5°	2139.7	1631.4	971.7	901.3	895.4	898.0	909.2	916.4	927.6	911.2	913.1
30°	2233.2	1605.7	931.6	869.7	853.2	848.6	851.3	855.2	863.8	841.4	838.1
32.5°	2341.8	1574.8	894.1	842.0	819.0	809.8	811.1	821.6	854.6	840.7	833.5
35°	2468.2	1539.9	854.6	811.8	796.0	782.8	781.5	814.4	912.5	903.9	897.3
37.5°	2616.3	1505.0	815.1	777.5	778.8	764.4	759.8	797.3	923.7	890.1	885.5
40°	2804.6	1486.6	781.5	741.3	757.8	755.8	746.6	765.7	849.9	788.7	780.8
42.5°	3037.7	1489.2	756.5	702.5	732.8	753.8	739.3	740.0	770.3	724.2	717.0
45°	3325.4	1520.2	738.7	671.5	704.4	751.8	736.7	726.2	728.8	704.4	700.5
47.5°	3661.2	1584.0	726.2	645.9	677.5	744.6	736.0	722.2	716.3	703.1	699.8
50°	4034.4	1676.8	717.0	621.5	653.1	732.8	736.7	718.3	711.7	706.4	704.4
52.5°	4401.2	1782.8	703.1	600.4	634.0	718.3	738.7	714.3	707.1	703.1	701.2
55°	4810.0	1915.2	682.1	582.7	618.2	699.8	738.7	708.4	700.5	701.2	700.5
57.5°	5362.4	2129.1	657.0	567.5	599.1	677.5	726.2	701.8	691.9	692.6	693.3
60°	6225.5	2506.4	626.8	552.4	575.4	651.1	709.1	687.3	677.5	680.1	680.7
62.5°	7494.8	3060.1	587.3	530.0	550.4	622.8	685.4	668.9	659.0	665.6	665.6
65°	8814.2	3548.6	538.5	501.7	524.1	591.9	655.7	645.9	636.0	651.1	650.5
67.5°	9169.0	3439.3	489.8	470.7	497.7	557.6	620.2	614.9	609.6	636.0	634.7
70°	8145.3	2761.2	445.1	439.1	468.8	520.8	582.0	582.0	578.7	598.5	593.8
72.5°	6205.7	1958.0	402.3	405.6	435.8	480.6	540.5	545.1	539.9	549.7	545.8
75°	3322.1	1120.5	359.5	368.7	395.0	439.8	494.4	499.0	495.7	495.1	497.1
77.5°	1104.1	547.8	314.7	329.2	352.2	397.7	446.4	453.6	445.7	444.4	443.7
80°	491.8	344.3	265.3	284.4	304.8	349.6	395.7	401.6	393.0	404.9	389.8
82.5°	316.0	226.5	212.7	233.7	253.5	301.5	345.0	346.3	338.4	393.0	335.1
85°	153.4	140.2	160.0	179.1	196.2	237.0	285.7	286.4	266.6	242.9	234.4
87.5°	76.4	81.6	106.7	123.8	132.3	162.6	208.0	204.1	195.5	177.8	163.9
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)