

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: P191754

Luminaire Tested: **GLEON-AF-06-LED-E1-AFL-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191754  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-06-LED-E1-AFL-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24064 lumens  
Efficiency: N/A  
Efficacy: 124.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

Input Watts (W): 193  
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

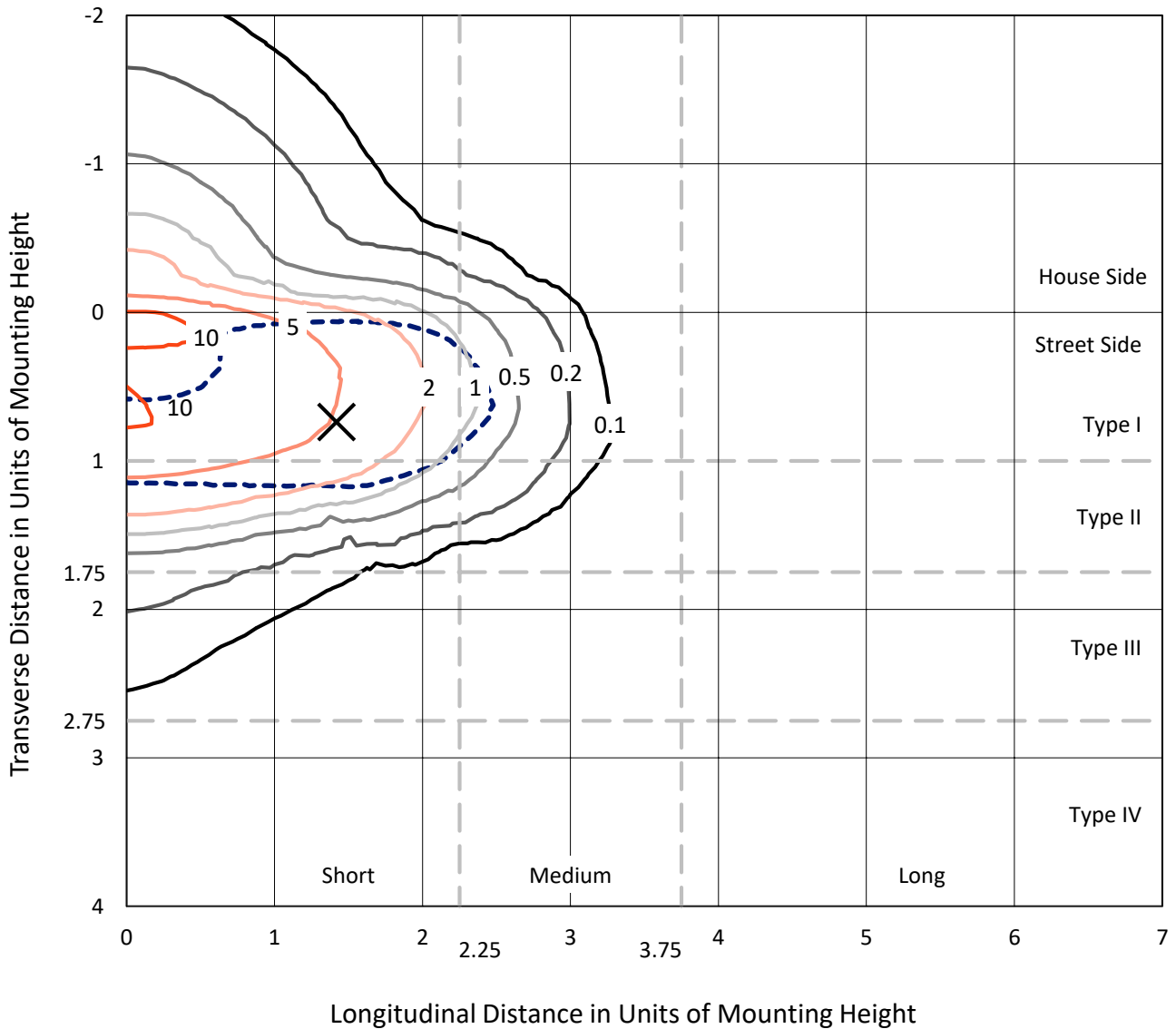


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### Iso-Footcandle Lines of Horizontal Illumination

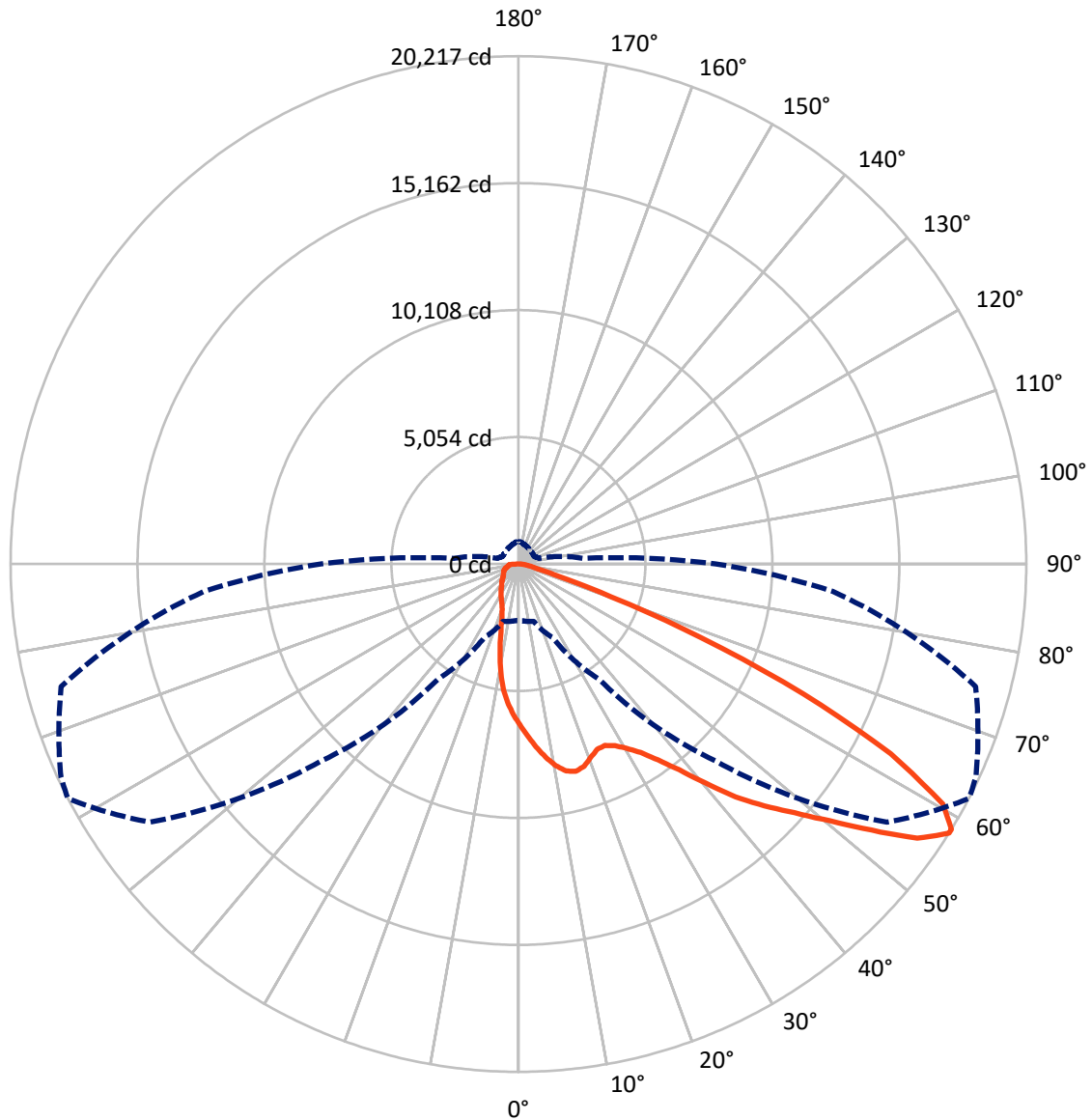
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3669.9	0.0	3669.9
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	20394.1	0.0	20394.1
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	24064.0	0.0	24064.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	571.7	2.4
10°-20°	1461.3	6.1
20°-30°	2362.2	9.8
30°-40°	3750.0	15.6
40°-50°	5487.1	22.8
50°-60°	5739.1	23.8
60°-70°	3390.6	14.1
70°-80°	955.2	4.0
80°-90°	346.8	1.4
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°	24064.0	100.0
0°-180°	24064.0	100.0

**Coefficient of Utilization**



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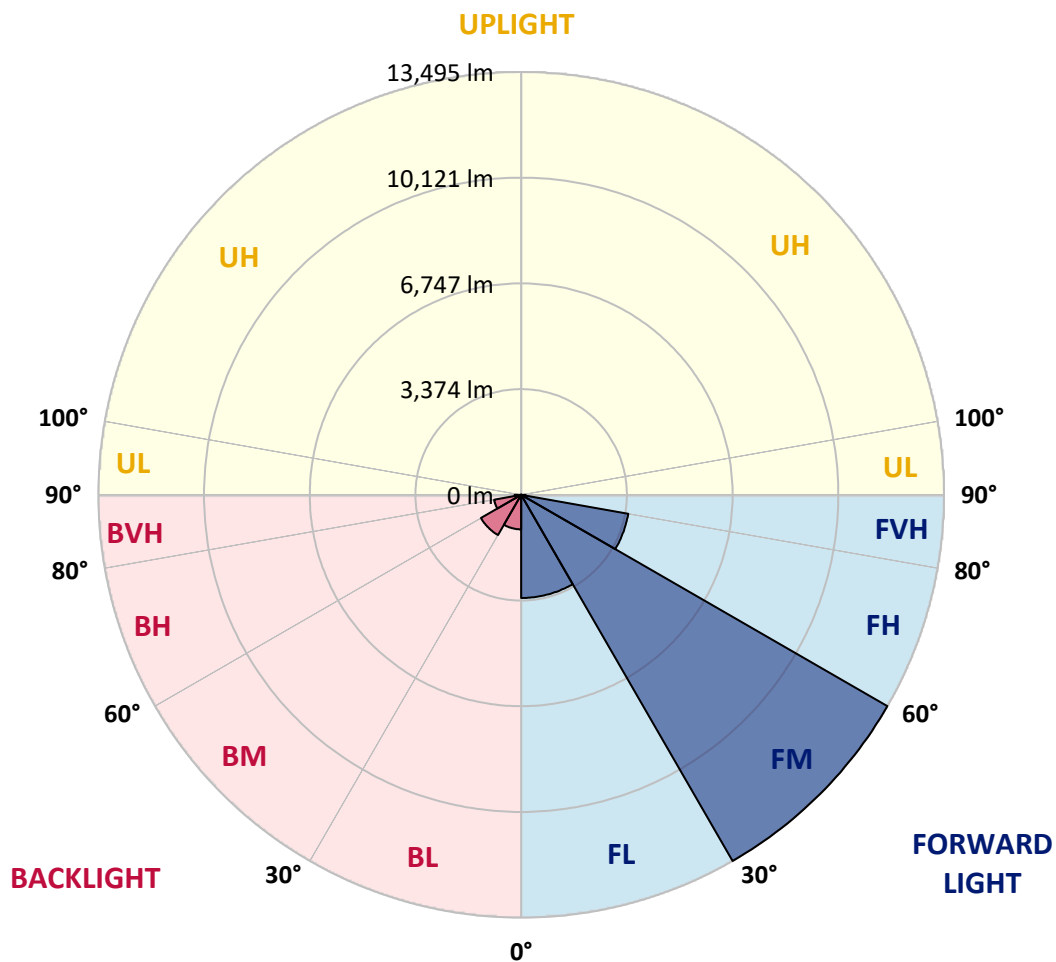
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3292.3	13.7			
FM (30°-60°)	13495.0	56.1			
FH (60°-80°)	3470.1	14.4			G2/5000
FVH (80°-90°)	136.8	0.6			G2/225
BL (0°-30°)	1103.0	4.6	B3/2500		
BM (30°-60°)	1481.2	6.2	B2/2500		
BH (60°-80°)	875.7	3.6	B2/1000		G2/1000
BVH (80°-90°)	210.0	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	6392.1	6392.1	6392.1	6392.1	6392.1	6392.1	6392.1	6392.1	6392.1	6392.1	6392.1
2.5°	7304.3	7245.4	7208.0	7175.1	7132.1	7040.3	6916.8	6838.6	6798.9	6664.1	6504.3
5°	8020.5	7968.3	7929.8	7885.6	7808.6	7664.6	7465.2	7306.6	7228.4	6958.7	6639.1
7.5°	7852.7	7874.3	7941.1	8057.8	8157.6	8138.3	7960.4	7758.7	7655.6	7280.5	6795.5
10°	6842.0	6879.4	6994.9	7268.0	7710.0	8163.2	8301.5	8162.1	8057.8	7598.9	6956.4
12.5°	6639.1	6638.0	6647.1	6719.6	6982.5	7620.4	8312.8	8453.3	8391.0	7902.6	7120.7
15°	6721.9	6724.1	6717.3	6747.9	6829.5	7082.2	7966.1	8565.5	8609.7	8208.6	7290.7
17.5°	6939.4	6933.8	6907.7	6907.7	6937.2	7035.7	7558.1	8461.2	8665.2	8479.4	7440.3
20°	7304.3	7278.2	7209.1	7145.7	7113.9	7167.2	7390.4	8221.0	8568.9	8716.2	7563.8
22.5°	7746.2	7725.8	7613.6	7477.7	7367.8	7366.6	7476.5	8011.4	8402.3	8939.4	7668.0
25°	8317.3	8284.5	8117.9	7900.3	7707.7	7634.0	7664.6	8001.2	8311.7	9181.9	7761.0
27.5°	8988.2	8928.1	8730.9	8417.1	8133.8	7985.3	7941.1	8185.9	8394.4	9482.2	7890.1
30°	9801.8	9732.6	9480.0	9070.9	8670.9	8427.3	8333.2	8513.4	8668.6	9848.2	8097.5
32.5°	10727.6	10627.8	10335.5	9884.5	9358.7	8987.0	8834.1	8946.2	9069.8	10289.0	8357.0
35°	12006.9	11887.9	11465.2	10843.1	10249.4	9738.3	9493.5	9575.1	9695.3	10946.3	8732.1
37.5°	12879.4	12826.1	12545.1	11960.4	11314.5	10726.4	10347.9	10395.5	10463.5	11767.8	9212.5
40°	12871.5	12893.0	12898.7	12904.3	12464.7	11901.5	11494.7	11444.8	11431.2	12669.8	9758.7
42.5°	12226.7	12315.1	12600.7	13179.7	13447.1	13188.8	12816.0	12672.0	12600.7	13732.7	10337.7
45°	11239.7	11287.3	11822.2	12953.1	13950.2	14463.6	14181.4	13728.1	13599.0	14709.4	10818.2
47.5°	10731.0	10783.1	11119.6	12352.5	13944.6	15493.6	15656.8	14793.3	14562.1	15559.3	11232.9
50°	9519.6	9628.4	10052.2	11307.7	13435.8	15967.2	17199.0	16062.4	15584.2	16386.5	11648.8
52.5°	7295.2	7462.9	7937.7	9589.9	12145.1	15732.7	18433.0	17601.3	16925.9	17243.2	12005.7
55°	4601.7	4726.4	5125.2	6772.9	9715.6	14512.3	18901.0	19265.9	18665.3	18054.5	12315.1
57.5°	2502.0	2557.5	2707.1	3739.4	6319.6	11814.2	18218.8	20213.2	19963.9	18743.5	12548.5
58°	2239.1	2276.5	2369.4	3240.8	5604.6	11076.6	17916.3	20216.6	20091.9	18844.3	12566.7
60°	1661.2	1641.9	1559.2	1849.3	3119.6	7652.2	16087.4	19407.5	19773.5	18967.8	12478.3
62.5°	1459.5	1413.0	1244.2	1224.9	1517.3	3525.2	12309.4	16624.5	17489.1	18263.0	11941.2
65°	1371.1	1321.3	1103.7	1033.4	1094.6	1491.2	7251.0	12468.1	13552.5	16125.9	10567.8
67.5°	1305.4	1240.8	1014.2	917.9	922.4	985.8	2906.5	7852.7	9073.1	12243.7	8219.9
70°	1241.9	1171.7	938.3	827.2	801.1	779.6	1155.8	3930.9	5038.0	7733.8	5240.8
72.5°	1173.9	1104.8	871.4	755.8	704.8	633.4	754.7	1607.9	2245.9	3658.9	2377.4
75°	1075.4	1013.0	804.5	692.4	619.8	524.6	570.0	839.7	1007.4	1457.2	1145.6
77.5°	954.1	903.1	729.8	640.2	549.6	426.1	438.5	582.4	645.9	834.0	681.0
80°	685.6	703.7	649.3	575.6	489.5	345.6	336.5	424.9	458.9	536.0	443.1
82.5°	481.6	491.8	537.1	470.3	404.5	272.0	248.2	299.2	319.5	352.4	239.1
85°	332.0	320.7	368.3	327.5	292.4	181.3	170.0	202.8	215.3	218.7	123.5
87.5°	199.4	199.4	213.0	175.6	157.5	94.1	91.8	115.6	123.5	117.8	68.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6392.1	6392.1	6392.1	6392.1	6392.1	6392.1	6392.1	6392.1	6392.1	6392.1	6392.1
2.5°	6409.1	6328.7	6157.5	6020.4	5847.1	5666.9	5566.0	5458.4	5384.7	5331.5	5416.5
5°	6457.8	6293.5	5940.0	5604.6	5234.0	4848.8	4556.4	4284.4	4095.2	3977.4	4088.4
7.5°	6534.9	6282.2	5719.0	5145.6	4480.5	3839.1	3265.7	2906.5	2696.9	2593.8	2658.4
10°	6623.3	6264.1	5459.5	4523.5	3571.7	2763.8	2335.4	2190.4	2142.8	2123.5	2132.6
12.5°	6696.9	6225.5	5141.1	3771.1	2682.2	2182.5	2058.9	2055.5	2065.7	2068.0	2071.4
15°	6749.1	6168.9	4668.6	2987.0	2145.1	1988.7	1981.9	2002.3	2021.5	2029.5	2034.0
17.5°	6784.2	6052.2	4134.9	2361.5	1921.8	1894.6	1910.5	1936.6	1957.0	1962.6	1967.2
20°	6780.8	5881.1	3499.2	1969.4	1800.6	1800.6	1827.8	1848.2	1849.3	1842.5	1845.9
22.5°	6745.7	5646.5	2882.7	1760.9	1692.9	1712.2	1739.4	1720.1	1640.8	1588.7	1592.1
25°	6686.7	5366.6	2354.7	1628.3	1593.2	1627.2	1619.3	1474.2	1360.9	1309.9	1309.9
27.5°	6634.6	5035.7	1949.0	1512.8	1493.5	1535.4	1394.9	1263.5	1215.9	1192.1	1184.1
30°	6597.2	4678.8	1678.2	1401.7	1399.4	1368.8	1210.2	1173.9	1166.0	1146.8	1140.0
32.5°	6606.3	4317.3	1504.8	1304.3	1312.2	1171.7	1121.8	1129.8	1123.0	1102.6	1093.5
35°	6681.1	3974.0	1391.5	1215.9	1192.1	1058.4	1069.7	1084.4	1082.2	1053.8	1044.8
37.5°	6814.8	3648.8	1316.7	1142.2	1040.2	1001.7	1019.8	1042.5	1036.8	1017.6	1010.8
40°	6955.3	3342.8	1255.5	1084.4	950.7	963.2	979.0	991.5	997.2	1002.8	998.3
42.5°	7092.4	3023.3	1180.7	1025.5	913.3	926.9	933.7	946.2	976.8	998.3	997.2
45°	7174.0	2723.0	1103.7	941.6	883.9	891.8	887.3	912.2	949.6	984.7	985.8
47.5°	7264.6	2489.5	1042.5	864.6	855.5	861.2	847.6	872.5	906.5	949.6	954.1
50°	7374.6	2350.2	993.8	803.4	817.0	817.0	813.6	836.3	883.9	933.7	942.8
52.5°	7499.2	2323.0	953.0	759.2	778.5	777.3	780.7	814.7	866.9	915.6	923.5
55°	7651.0	2396.6	908.8	726.4	741.1	745.6	756.9	795.5	839.7	895.2	898.6
57.5°	7827.8	2546.2	873.7	700.3	707.1	721.8	739.9	775.1	822.7	883.9	887.3
58°	7857.3	2577.9	868.0	698.0	700.3	717.3	737.7	771.7	819.3	886.1	889.5
60°	7858.4	2683.3	855.5	687.8	674.2	702.6	725.2	759.2	813.6	894.1	902.0
62.5°	7579.7	2682.2	846.5	673.1	647.0	682.2	708.2	747.9	807.9	913.3	929.2
65°	6674.3	2437.4	803.4	650.4	625.5	664.0	693.5	739.9	823.8	997.2	1007.4
67.5°	5220.4	1997.7	723.0	618.7	597.2	645.9	684.4	738.8	840.8	1016.4	1023.2
70°	3451.6	1494.6	634.6	582.4	567.7	624.4	689.0	777.3	821.5	975.6	957.5
72.5°	1791.5	1049.3	563.2	537.1	533.7	605.1	754.7	772.8	802.3	917.9	895.2
75°	940.5	728.6	500.9	487.3	492.9	600.6	890.7	752.4	777.3	878.2	921.3
77.5°	575.6	588.1	447.6	441.9	453.3	587.0	889.5	726.4	741.1	807.9	855.5
80°	385.3	477.1	406.8	407.9	415.9	537.1	798.9	685.6	696.9	763.7	812.5
82.5°	243.6	282.2	369.4	388.7	378.5	443.1	678.8	624.4	640.2	873.7	923.5
85°	123.5	176.8	320.7	373.9	341.1	310.5	550.7	547.3	555.2	630.0	658.4
87.5°	56.7	97.5	250.4	326.3	257.2	193.8	400.0	405.7	437.4	447.6	447.6
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)