

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: P193513

Luminaire Tested: **GLEON-AF-05-LED-E1-AFL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193513
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-05-LED-E1-AFL-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24905 lumens
Efficiency: N/A
Efficacy: 89.3 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

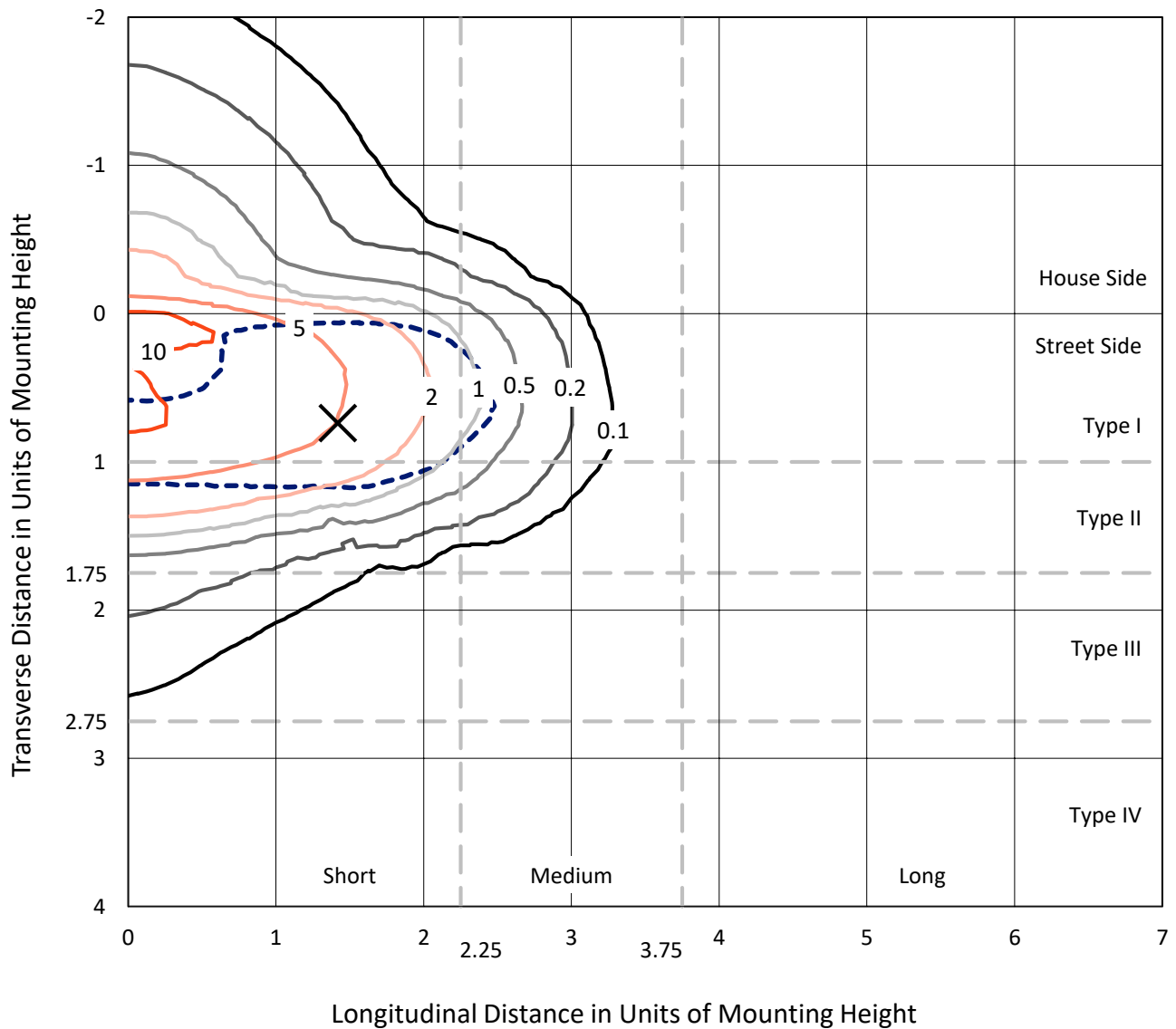
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

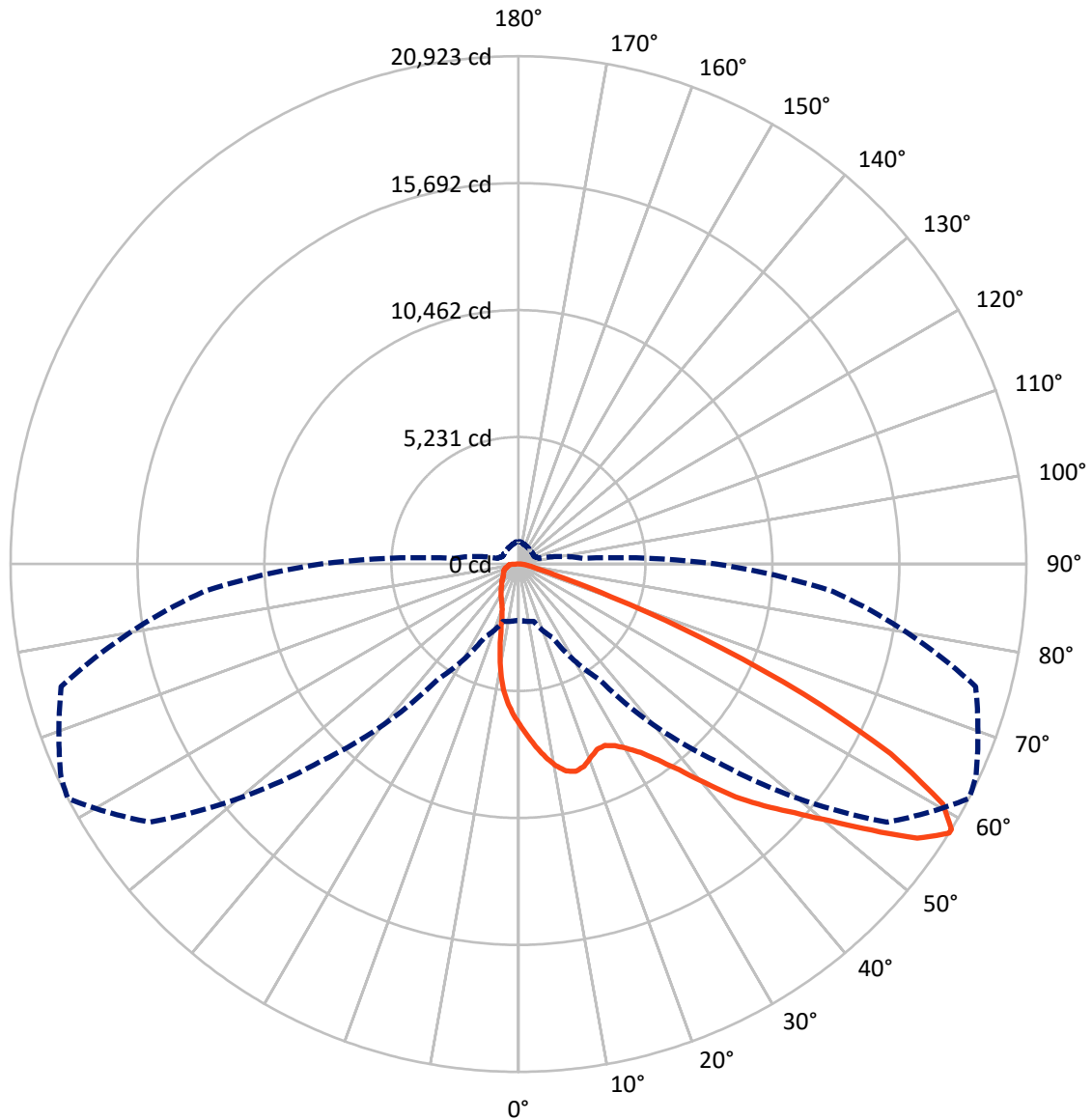
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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
House Side	Lumens	3798.1	0.0	3798.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	21106.9	0.0	21106.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	24905.0	0.0	24905.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.7	2.4
10°-20°	1512.4	6.1
20°-30°	2444.8	9.8
30°-40°	3881.1	15.6
40°-50°	5678.9	22.8
50°-60°	5939.6	23.8
60°-70°	3509.1	14.1
70°-80°	988.5	4.0
80°-90°	358.9	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°	24905.0	100.0
0°-180°	24905.0	100.0



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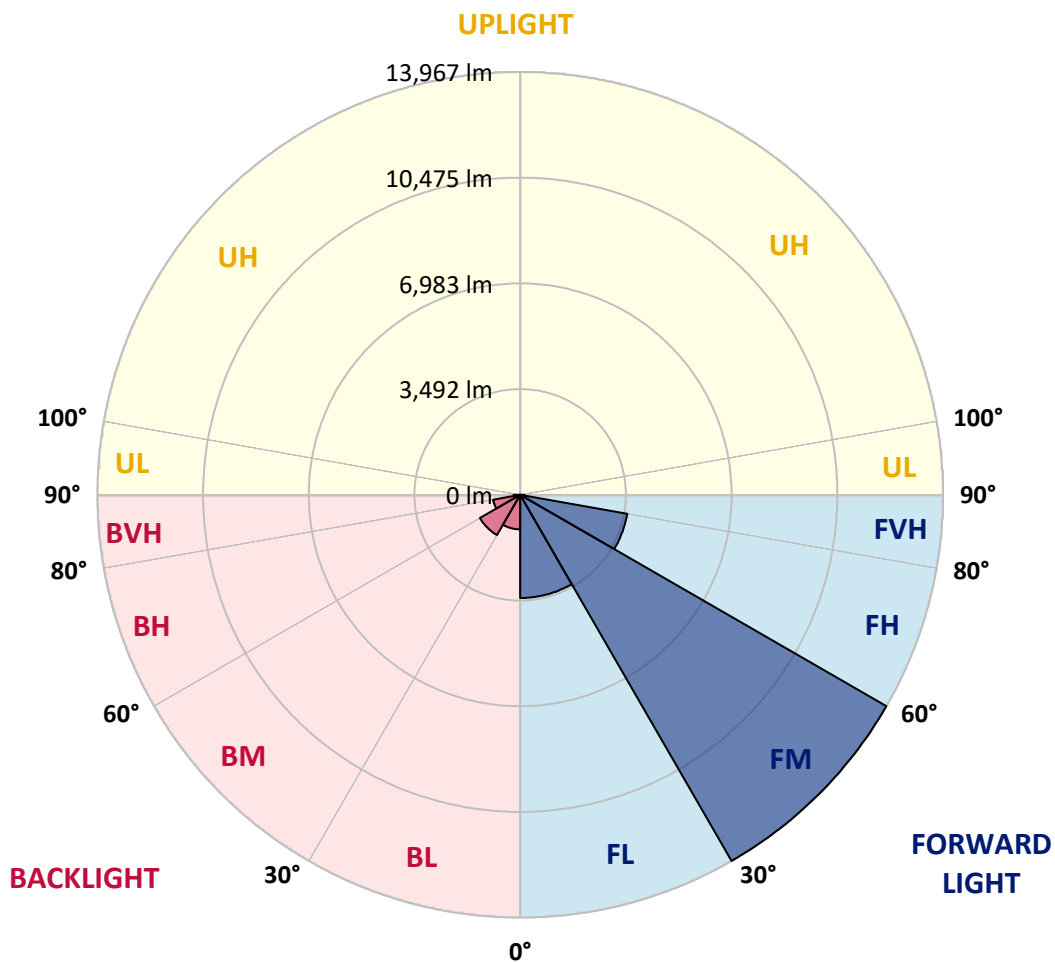
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3407.3	13.7			
FM (30°-60°)	13966.6	56.1			
FH (60°-80°)	3591.4	14.4			G2/5000
FVH (80°-90°)	141.6	0.6			G2/225
BL (0°-30°)	1141.5	4.6	B3/2500		
BM (30°-60°)	1533.0	6.2	B2/2500		
BH (60°-80°)	906.3	3.6	B2/1000		G2/1000
BVH (80°-90°)	217.3	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°	6615.5	6615.5	6615.5	6615.5	6615.5	6615.5	6615.5	6615.5	6615.5	6615.5	6615.5
2.5°	7559.6	7498.6	7459.9	7425.9	7381.3	7286.3	7158.5	7077.6	7036.5	6897.0	6731.6
5°	8300.8	8246.8	8206.9	8161.2	8081.4	7932.5	7726.1	7561.9	7481.0	7201.9	6871.2
7.5°	8127.2	8149.5	8218.7	8339.5	8442.7	8422.7	8238.6	8029.8	7923.1	7534.9	7033.0
10°	7081.1	7119.8	7239.4	7522.0	7979.4	8448.5	8591.6	8447.3	8339.5	7864.5	7199.5
12.5°	6871.2	6870.0	6879.4	6954.4	7226.5	7886.8	8603.3	8748.7	8684.2	8178.8	7369.6
15°	6956.8	6959.1	6952.1	6983.8	7068.2	7329.7	8244.5	8864.8	8910.6	8495.4	7545.5
17.5°	7181.9	7176.1	7149.1	7149.1	7179.6	7281.6	7822.3	8757.0	8968.1	8775.7	7700.3
20°	7559.6	7532.6	7461.1	7395.4	7362.6	7417.7	7648.7	8508.3	8868.4	9020.8	7828.1
22.5°	8016.9	7995.8	7879.7	7739.0	7625.2	7624.1	7737.8	8291.4	8696.0	9251.9	7936.0
25°	8608.0	8574.0	8401.6	8176.4	7977.1	7900.8	7932.5	8280.8	8602.2	9502.8	8032.2
27.5°	9302.3	9240.1	9036.1	8711.2	8418.0	8264.4	8218.7	8472.0	8687.8	9813.6	8165.9
30°	10144.3	10072.8	9811.3	9387.9	8973.9	8721.8	8624.4	8810.9	8971.6	10192.4	8380.5
32.5°	11102.5	10999.3	10696.7	10229.9	9685.8	9301.1	9142.8	9258.9	9386.7	10648.6	8649.1
35°	12426.5	12303.4	11865.9	11222.1	10607.6	10078.6	9825.3	9909.8	10034.1	11328.8	9037.2
37.5°	13329.5	13274.4	12983.6	12378.4	11710.0	11101.3	10709.6	10758.8	10829.2	12179.1	9534.5
40°	13321.3	13343.6	13349.5	13355.3	12900.3	12317.4	11896.4	11844.8	11830.7	13112.6	10099.8
42.5°	12654.0	12745.5	13041.0	13640.3	13917.1	13649.7	13263.8	13114.9	13041.0	14212.6	10699.0
45°	11632.5	11681.8	12235.3	13405.8	14437.8	14969.0	14677.0	14207.9	14074.2	15223.5	11196.3
47.5°	11106.0	11159.9	11508.2	12784.2	14431.9	16035.1	16203.9	15310.3	15071.1	16103.1	11625.5
50°	9852.3	9964.9	10403.5	11702.9	13905.3	16525.3	17800.1	16623.8	16128.9	16959.2	12055.9
52.5°	7550.2	7723.8	8215.1	9925.0	12569.6	16282.5	19077.2	18216.4	17517.4	17845.8	12425.3
55°	4762.6	4891.6	5304.4	7009.6	10055.2	15019.5	19561.5	19939.2	19317.6	18685.5	12745.5
57.5°	2589.4	2646.9	2801.7	3870.1	6540.4	12227.1	18855.5	20919.6	20661.6	19398.5	12987.1
58°	2317.4	2356.1	2452.2	3354.1	5800.4	11463.7	18542.4	20923.1	20794.1	19502.9	13005.8
60°	1719.3	1699.3	1613.7	1913.9	3228.6	7919.6	16649.6	20085.8	20464.6	19630.7	12914.4
62.5°	1510.5	1462.4	1287.7	1267.7	1570.3	3648.4	12739.6	17205.5	18100.3	18901.3	12358.5
65°	1419.0	1367.4	1142.3	1069.6	1132.9	1543.3	7504.5	12903.8	14026.1	16689.5	10937.1
67.5°	1351.0	1284.2	1049.6	949.9	954.6	1020.3	3008.1	8127.2	9390.2	12671.6	8507.2
70°	1285.3	1212.6	971.0	856.1	829.1	806.9	1196.2	4068.3	5214.1	8004.0	5424.0
72.5°	1215.0	1143.4	901.8	782.2	729.5	655.6	781.1	1664.1	2324.4	3786.8	2460.4
75°	1112.9	1048.4	832.7	716.6	641.5	543.0	589.9	869.0	1042.6	1508.2	1185.7
77.5°	987.5	934.7	755.3	662.6	568.8	441.0	453.9	602.8	668.5	863.1	704.8
80°	709.5	728.3	672.0	595.8	506.6	357.7	348.3	439.8	475.0	554.7	458.5
82.5°	498.4	509.0	555.9	486.7	418.7	281.5	256.8	309.6	330.7	364.7	247.5
85°	343.6	331.9	381.1	338.9	302.6	187.6	175.9	209.9	222.8	226.3	127.8
87.5°	206.4	206.4	220.5	181.8	163.0	97.3	95.0	119.6	127.8	122.0	70.4
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°	6615.5	6615.5	6615.5	6615.5	6615.5	6615.5	6615.5	6615.5	6615.5	6615.5	6615.5
2.5°	6633.1	6549.8	6372.7	6230.8	6051.4	5864.9	5760.6	5649.2	5572.9	5517.8	5605.8
5°	6683.5	6513.5	6147.6	5800.4	5417.0	5018.2	4715.6	4434.2	4238.3	4116.4	4231.3
7.5°	6763.3	6501.7	5918.9	5325.5	4637.1	3973.3	3379.9	3008.1	2791.2	2684.4	2751.3
10°	6854.7	6483.0	5650.3	4681.6	3696.5	2860.3	2417.0	2266.9	2217.7	2197.7	2207.1
12.5°	6931.0	6443.1	5320.8	3902.9	2775.9	2258.7	2130.9	2127.4	2137.9	2140.3	2143.8
15°	6984.9	6384.5	4831.7	3091.4	2220.0	2058.2	2051.1	2072.3	2092.2	2100.4	2105.1
17.5°	7021.3	6263.7	4279.4	2444.0	1989.0	1960.8	1977.3	2004.2	2025.3	2031.2	2035.9
20°	7017.8	6086.6	3621.5	2038.2	1863.5	1863.5	1891.7	1912.8	1913.9	1906.9	1910.4
22.5°	6981.4	5843.8	2983.5	1822.5	1752.1	1772.0	1800.2	1780.2	1698.1	1644.2	1647.7
25°	6920.4	5554.2	2437.0	1685.2	1648.9	1684.1	1675.9	1525.8	1408.5	1355.7	1355.7
27.5°	6866.5	5211.7	2017.1	1565.6	1545.7	1589.1	1443.7	1307.6	1258.4	1233.7	1225.5
30°	6827.8	4842.3	1736.8	1450.7	1448.4	1416.7	1252.5	1215.0	1206.8	1186.8	1179.8
32.5°	6837.2	4468.2	1557.4	1349.8	1358.0	1212.6	1161.0	1169.2	1162.2	1141.1	1131.7
35°	6914.6	4112.8	1440.1	1258.4	1233.7	1095.4	1107.1	1122.3	1120.0	1090.7	1081.3
37.5°	7052.9	3776.3	1362.7	1182.1	1076.6	1036.7	1055.5	1078.9	1073.1	1053.1	1046.1
40°	7198.4	3459.6	1299.4	1122.3	983.9	996.8	1013.3	1026.2	1032.0	1037.9	1033.2
42.5°	7340.3	3128.9	1222.0	1061.3	945.2	959.3	966.3	979.2	1010.9	1033.2	1032.0
45°	7424.7	2818.1	1142.3	974.6	914.7	923.0	918.3	944.1	982.8	1019.1	1020.3
47.5°	7518.5	2576.5	1078.9	894.8	885.4	891.3	877.2	903.0	938.2	982.8	987.5
50°	7632.3	2432.3	1028.5	831.5	845.6	845.6	842.0	865.5	914.7	966.3	975.7
52.5°	7761.3	2404.1	986.3	785.7	805.7	804.5	808.0	843.2	897.2	947.6	955.8
55°	7918.4	2480.4	940.5	751.7	767.0	771.7	783.4	823.3	869.0	926.5	930.0
57.5°	8101.4	2635.2	904.2	724.8	731.8	747.0	765.8	802.2	851.4	914.7	918.3
58°	8131.9	2668.0	898.3	722.4	724.8	742.4	763.5	798.6	847.9	917.1	920.6
60°	8133.0	2777.1	885.4	711.9	697.8	727.1	750.6	785.7	842.0	925.3	933.5
62.5°	7844.6	2775.9	876.0	696.6	669.6	706.0	733.0	774.0	836.2	945.2	961.7
65°	6907.5	2522.6	831.5	673.2	647.4	687.2	717.7	765.8	852.6	1032.0	1042.6
67.5°	5402.9	2067.6	748.2	640.3	618.0	668.5	708.3	764.6	870.2	1052.0	1059.0
70°	3572.2	1546.9	656.7	602.8	587.5	646.2	713.0	804.5	850.2	1009.7	991.0
72.5°	1854.1	1086.0	582.9	555.9	552.4	626.3	781.1	799.8	830.3	949.9	926.5
75°	973.4	754.1	518.4	504.3	510.1	621.6	921.8	778.7	804.5	908.9	953.4
77.5°	595.8	608.7	463.2	457.4	469.1	607.5	920.6	751.7	767.0	836.2	885.4
80°	398.7	493.7	421.0	422.2	430.4	555.9	826.8	709.5	721.2	790.4	840.9
82.5°	252.1	292.0	382.3	402.3	391.7	458.5	702.5	646.2	662.6	904.2	955.8
85°	127.8	182.9	331.9	387.0	353.0	321.3	570.0	566.4	574.6	652.1	681.4
87.5°	58.6	100.9	259.2	337.8	266.2	200.5	414.0	419.8	452.7	463.2	463.2
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)