

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: P269418

Luminaire Tested: **GLEON-AF-06-LED-E1-T2-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269418
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: GLEON-AF-06-LED-E1-T2-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19998.7 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

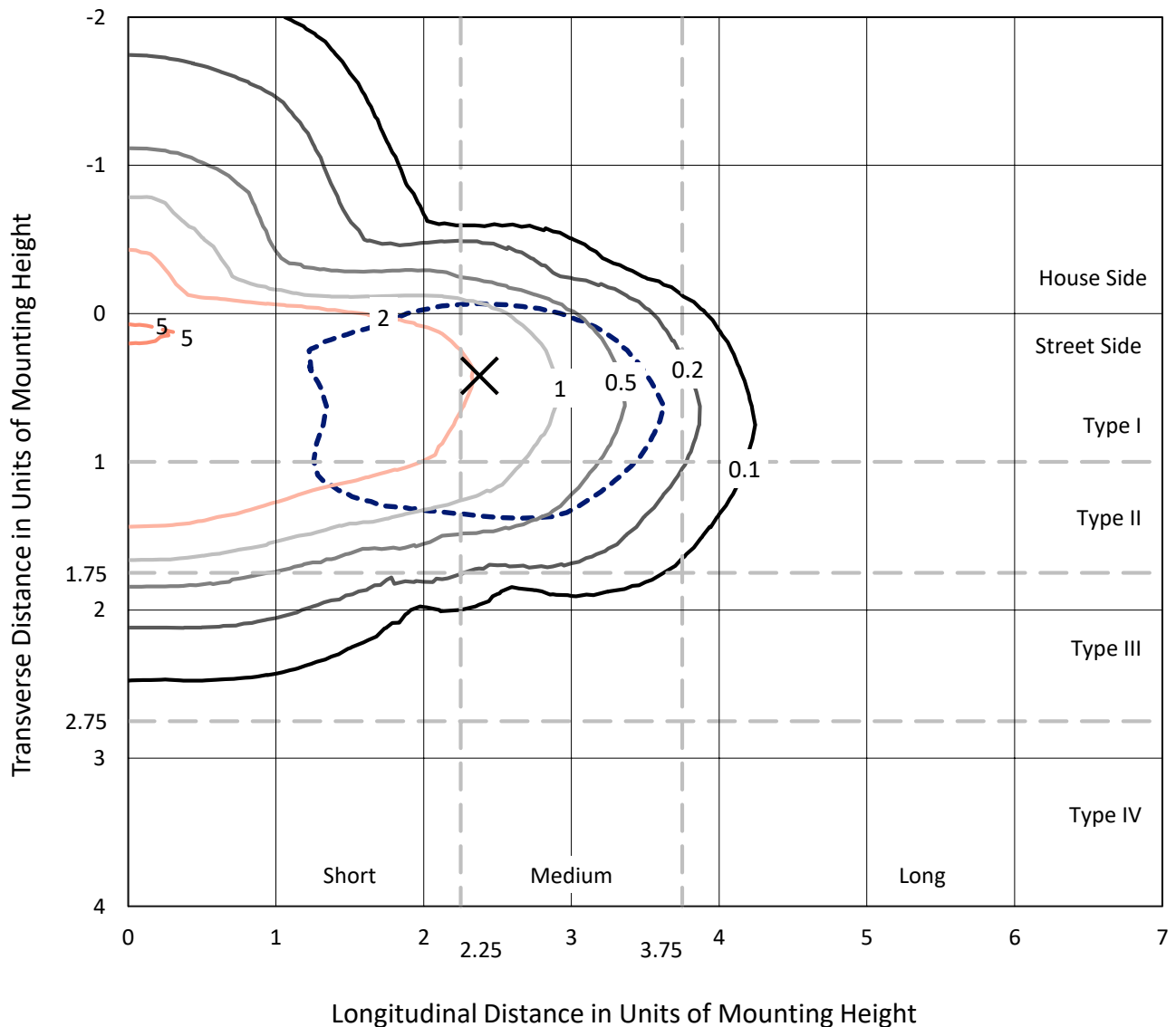
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P269418
 CATALOG NUMBER: GLEON-AF-06-LED-E1-T2-7027-600

Iso-Footcandle Lines of Horizontal Illumination

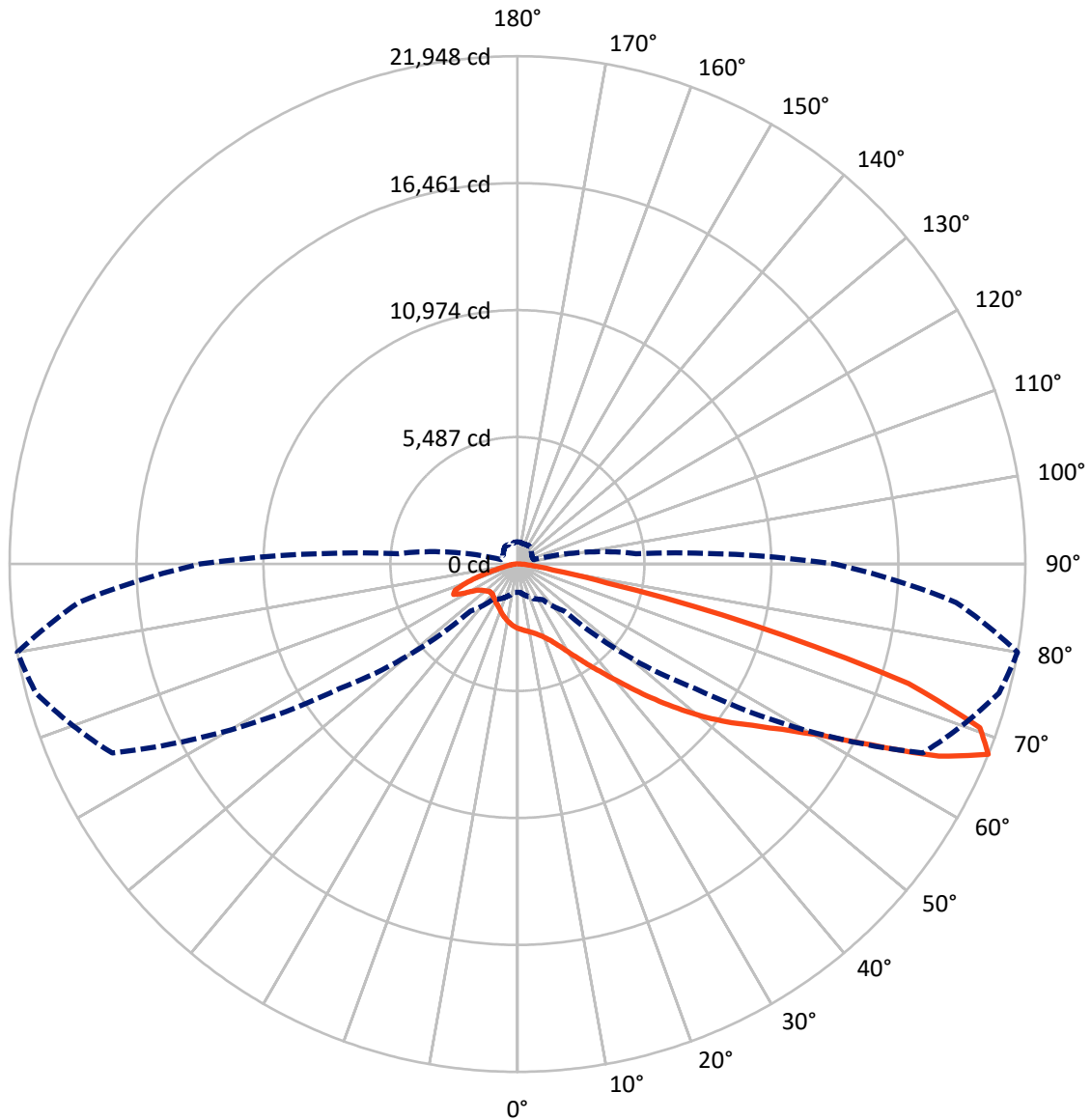
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P269418
CATALOG NUMBER: GLEON-AF-06-LED-E1-T2-7027-600

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GLEON-AF-06-LED-E1-T2-7027-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3683.0	0.0	3683.0
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	16315.7	0.0	16315.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	19998.7	0.0	19998.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.3	1.3
10°-20°	738.3	3.7
20°-30°	1222.1	6.1
30°-40°	1999.0	10.0
40°-50°	3227.6	16.1
50°-60°	4659.6	23.3
60°-70°	5142.2	25.7
70°-80°	2370.2	11.9
80°-90°	383.4	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°	19998.7	100.0
0°-180°	19998.7	100.0



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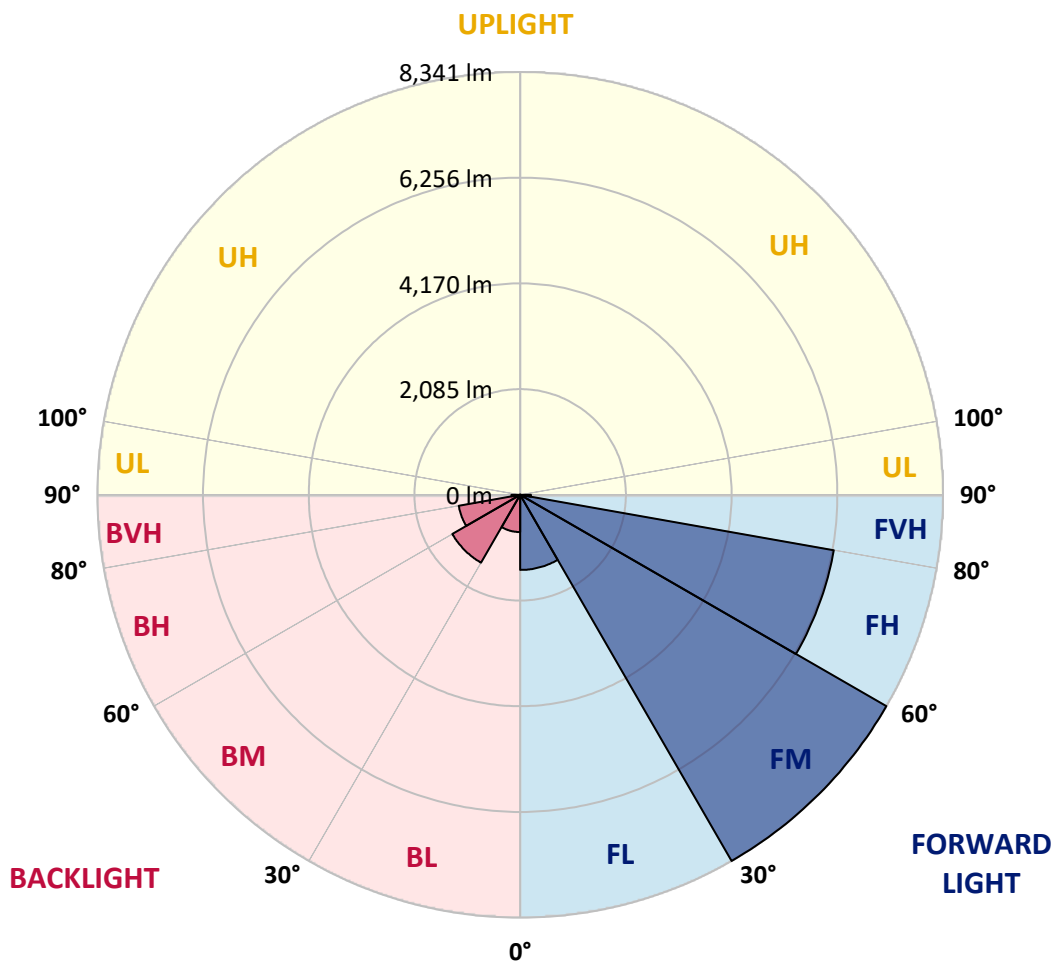
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1481.9	7.4			
FM (30°-60°)	8340.9	41.7			
FH (60°-80°)	6282.1	31.4			G3/7500
FVH (80°-90°)	210.8	1.1			G2/225
BL (0°-30°)	734.8	3.7	B2/1000		
BM (30°-60°)	1545.2	7.7	B2/2500		
BH (60°-80°)	1230.3	6.2	B3/2500		G3/2500
BVH (80°-90°)	172.6	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-G3

Type II Medium





REPORT NUMBER: P269418

CATALOG NUMBER: GLEON-AF-06-LED-E1-T2-7027-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	2778.4	2778.4	2778.4	2778.4	2778.4	2778.4	2778.4	2778.4	2778.4	2778.4	2778.4
2.5°	3039.2	3021.5	3024.6	3019.7	3004.8	2979.3	2951.7	2901.4	2849.2	2821.8	2800.0
5°	3293.4	3288.3	3281.5	3265.8	3228.2	3175.1	3109.3	3020.6	2925.2	2874.8	2826.6
7.5°	3483.4	3480.4	3471.5	3461.7	3425.2	3361.3	3261.8	3135.9	2996.9	2928.0	2853.2
10°	3499.1	3504.0	3510.8	3537.4	3542.3	3507.9	3406.6	3253.9	3071.8	2983.2	2887.7
12.5°	3365.2	3376.0	3402.6	3470.5	3542.3	3584.7	3532.6	3377.9	3159.3	3052.1	2931.0
15°	3187.9	3193.8	3226.4	3319.9	3448.9	3579.8	3629.1	3514.9	3272.6	3140.7	2995.9
17.5°	3112.2	3115.1	3137.8	3199.9	3319.9	3507.0	3683.2	3663.5	3411.5	3251.0	3075.7
20°	3073.8	3080.6	3113.2	3174.3	3250.0	3413.4	3691.0	3823.9	3577.0	3388.9	3176.1
22.5°	3183.1	3180.1	3191.9	3222.4	3286.4	3384.9	3685.1	3989.5	3787.6	3566.0	3307.1
25°	3438.1	3448.9	3428.2	3393.7	3414.4	3483.4	3716.6	4168.6	4051.4	3793.5	3478.3
27.5°	3801.4	3790.5	3759.9	3679.3	3636.9	3666.4	3821.0	4361.5	4379.2	4092.8	3704.9
30°	4163.6	4154.8	4125.2	4026.8	3940.1	3915.5	4023.9	4583.1	4770.1	4452.1	3982.5
32.5°	4539.8	4530.0	4502.3	4403.9	4299.5	4242.4	4312.4	4839.1	5230.9	4881.4	4309.3
35°	5003.5	4984.8	4926.7	4789.9	4687.4	4643.1	4675.6	5161.0	5762.5	5389.4	4706.1
37.5°	5439.6	5468.3	5409.1	5220.1	5087.1	5071.4	5107.9	5553.9	6335.6	5957.5	5162.0
40°	5877.8	5882.7	5829.6	5675.0	5538.1	5512.4	5604.0	6030.3	7012.0	6636.9	5716.3
42.5°	6330.6	6340.4	6250.9	6108.1	6007.8	6012.6	6117.0	6588.6	7787.8	7437.2	6354.3
45°	6867.3	6881.9	6783.6	6596.4	6504.8	6689.0	6645.8	7214.7	8638.5	8347.1	7086.8
47.5°	7428.4	7451.1	7376.3	7201.1	7086.8	7339.8	7174.5	7908.9	9554.1	9322.7	7891.2
50°	7734.6	7767.1	7840.0	7827.1	7802.6	7760.2	7764.1	8653.3	10498.2	10338.8	8718.2
52.5°	7570.1	7569.2	7835.0	8158.0	8502.5	8528.1	8482.9	9438.0	11380.4	11332.2	9496.9
55°	6818.0	6869.2	7271.9	7897.1	8838.3	9426.0	9559.9	10336.7	12246.9	12302.9	10287.6
57.5°	5565.7	5607.9	6151.5	7022.8	8385.4	9959.7	11091.9	11643.3	13215.5	13477.5	11340.1
60°	3774.8	3825.9	4402.0	5448.5	7166.5	9662.3	12550.0	13974.8	14375.3	14971.1	12816.8
62.5°	2218.2	2264.4	2734.1	3437.1	5045.8	8281.0	13190.1	17291.7	16217.6	17224.7	15069.4
65°	1526.9	1558.5	1787.0	2139.5	2899.5	5577.4	12396.4	19581.8	19052.1	20016.8	17681.5
67.5°	1228.7	1224.7	1405.9	1646.1	1866.7	2875.8	9374.0	19322.7	21544.9	21947.6	19037.2
70°	1012.1	1008.2	1131.2	1330.1	1491.5	1619.6	5105.8	16306.2	21036.9	21200.3	17788.9
72.5°	846.7	850.7	929.4	1077.1	1223.9	1219.9	2243.7	11470.9	16549.3	17679.5	14180.5
75°	714.8	716.8	768.9	873.3	993.4	982.6	1216.9	6214.5	9619.9	10406.7	7860.7
77.5°	608.4	610.4	643.8	701.9	787.6	783.7	888.1	2684.9	4013.0	3963.9	2688.7
80°	542.4	542.4	558.2	569.0	616.3	598.6	658.6	1289.7	1696.4	1566.5	1073.1
82.5°	425.3	427.4	523.8	519.8	485.4	462.7	462.7	760.1	898.9	830.9	628.2
85°	239.3	238.3	337.8	407.7	427.4	325.8	322.9	425.3	489.3	431.2	304.3
87.5°	102.3	104.4	156.6	181.2	242.3	202.7	199.9	219.5	249.1	215.7	140.8
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: P269418

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2778.4	2778.4	2778.4	2778.4	2778.4	2778.4	2778.4	2778.4	2778.4	2778.4	2778.4
2.5°	2779.4	2753.8	2697.7	2627.7	2564.8	2523.3	2486.0	2431.8	2434.8	2397.3	2369.8
5°	2777.4	2724.2	2594.2	2439.6	2291.0	2183.7	2103.0	2030.1	2012.5	1978.0	1957.2
7.5°	2779.4	2692.7	2474.2	2227.1	2042.9	1907.1	1838.1	1799.8	1791.0	1779.1	1780.1
10°	2786.3	2664.3	2342.2	2028.2	1835.1	1745.5	1728.9	1740.6	1754.5	1758.4	1759.4
12.5°	2802.1	2638.6	2197.6	1851.0	1705.3	1677.7	1706.2	1746.6	1773.2	1786.0	1785.0
15°	2837.4	2618.9	2058.6	1712.1	1633.4	1648.1	1701.3	1758.4	1796.8	1814.5	1815.6
17.5°	2875.8	2590.4	1915.9	1605.8	1580.2	1617.6	1683.6	1750.5	1797.8	1817.5	1821.5
20°	2926.0	2554.9	1766.2	1526.0	1530.1	1572.4	1634.3	1701.3	1753.5	1770.2	1778.0
22.5°	2992.1	2516.5	1635.4	1461.1	1473.0	1505.4	1553.6	1611.6	1657.1	1664.9	1671.7
25°	3080.6	2475.2	1531.0	1402.1	1406.9	1425.6	1458.0	1492.5	1524.1	1515.3	1522.1
27.5°	3199.9	2439.6	1453.2	1347.8	1339.1	1343.0	1359.7	1370.5	1387.3	1362.5	1365.6
30°	3339.5	2401.3	1393.1	1300.6	1276.0	1269.0	1273.0	1278.9	1291.8	1258.3	1253.3
32.5°	3502.0	2355.0	1336.9	1259.2	1224.7	1210.9	1213.0	1228.7	1278.0	1257.3	1246.5
35°	3691.0	2302.8	1278.0	1214.0	1190.3	1170.6	1168.7	1217.9	1364.5	1351.8	1342.0
37.5°	3912.6	2250.7	1218.9	1162.8	1164.7	1143.1	1136.1	1192.3	1381.4	1331.1	1324.2
40°	4194.1	2223.1	1168.7	1108.6	1133.2	1130.2	1116.5	1145.0	1271.0	1179.5	1167.6
42.5°	4542.6	2227.1	1131.2	1050.5	1095.8	1127.4	1105.6	1106.6	1151.9	1082.9	1072.1
45°	4972.9	2273.3	1104.6	1004.2	1053.4	1124.4	1101.7	1086.0	1090.0	1053.4	1047.6
47.5°	5475.1	2368.8	1086.0	965.9	1013.1	1113.4	1100.8	1080.0	1071.1	1051.5	1046.5
50°	6033.3	2507.7	1072.1	929.4	976.6	1095.8	1101.7	1074.2	1064.3	1056.4	1053.4
52.5°	6581.7	2666.2	1051.5	897.9	948.2	1074.2	1104.6	1068.3	1057.5	1051.5	1048.5
55°	7193.1	2864.1	1019.9	871.4	924.4	1046.5	1104.6	1059.5	1047.6	1048.5	1047.6
57.5°	8019.2	3184.0	982.6	848.7	895.9	1013.1	1086.0	1049.5	1034.8	1035.7	1036.7
60°	9309.9	3748.2	937.3	826.0	860.4	973.8	1060.4	1027.9	1013.1	1017.1	1018.0
62.5°	11208.2	4576.1	878.3	792.6	823.0	931.5	1025.0	1000.4	985.5	995.4	995.4
65°	13181.1	5306.6	805.4	750.3	783.7	885.1	980.6	965.9	951.0	973.8	972.8
67.5°	13711.8	5143.2	732.5	703.9	744.3	833.8	927.4	919.5	911.7	951.0	949.1
70°	12180.8	4129.1	665.6	656.8	700.9	778.8	870.4	870.4	865.3	894.9	888.1
72.5°	9280.4	2928.0	601.5	606.4	651.8	718.7	808.4	815.2	807.3	822.0	816.2
75°	4968.0	1675.7	537.5	551.4	590.7	657.6	739.3	746.3	741.5	740.5	743.3
77.5°	1651.1	819.2	470.6	492.4	526.8	594.7	667.5	678.4	666.5	664.6	663.6
80°	735.4	514.9	396.8	425.3	455.8	522.9	591.8	600.5	587.9	605.5	582.9
82.5°	472.6	338.8	318.0	349.5	379.1	450.9	515.8	517.9	506.0	587.9	501.2
85°	229.3	209.8	239.3	267.9	293.3	354.4	427.4	428.3	398.8	363.4	350.5
87.5°	114.3	122.1	159.4	185.1	197.8	243.3	311.2	305.2	292.4	265.8	245.1
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)