

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: P193894

Luminaire Tested: **GLEON-AF-06-LED-E1-T2-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193894
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-T2-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18784 lumens
Efficiency: N/A
Efficacy: 97.3 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

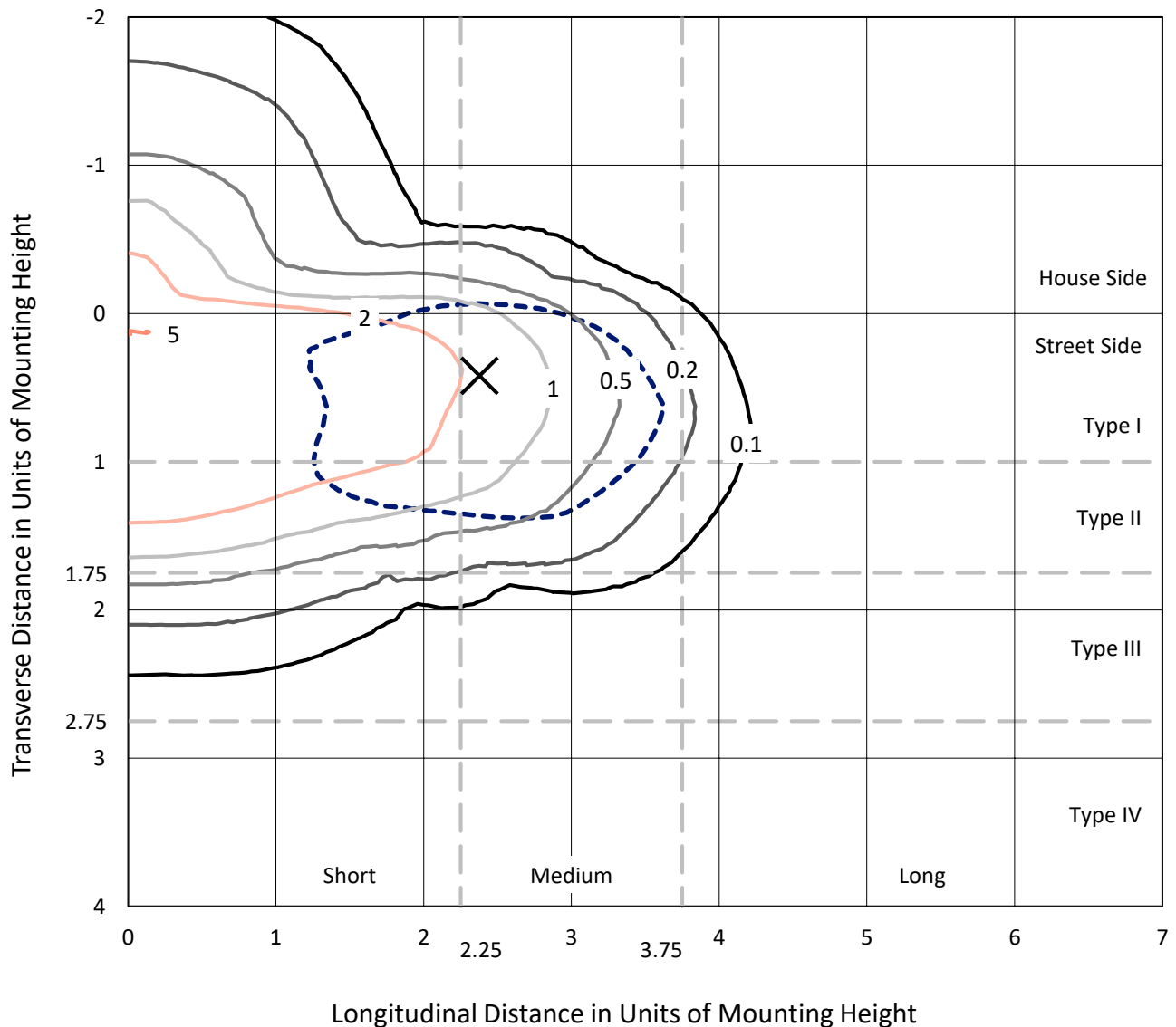


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

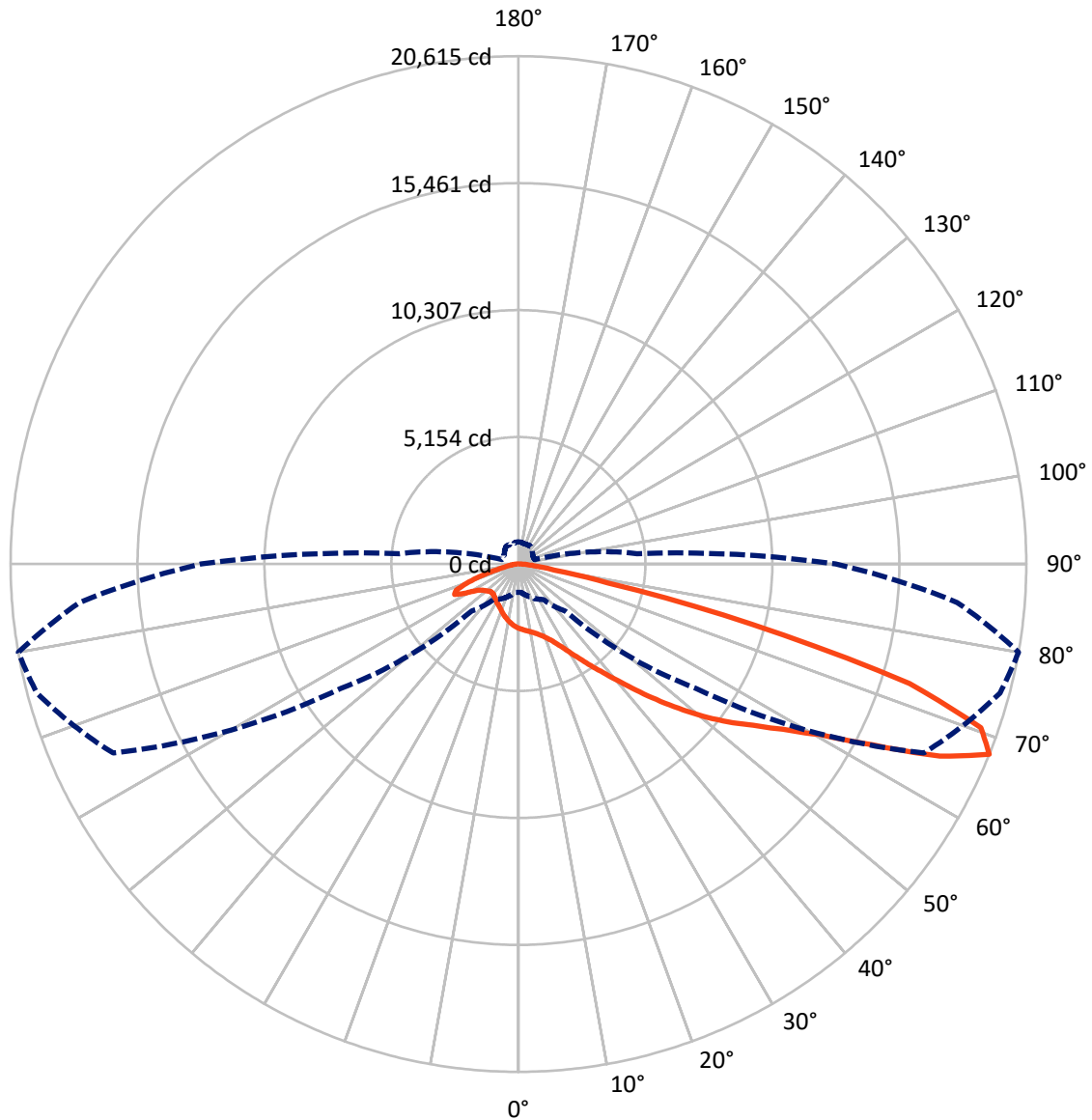


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3459.3	0.0	3459.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	15324.7	0.0	15324.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	18784.0	0.0	18784.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.7	1.3
10°-20°	693.5	3.7
20°-30°	1147.8	6.1
30°-40°	1877.6	10.0
40°-50°	3031.5	16.1
50°-60°	4376.6	23.3
60°-70°	4829.9	25.7
70°-80°	2226.3	11.9
80°-90°	360.1	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°	18784.0	100.0
0°-180°	18784.0	100.0



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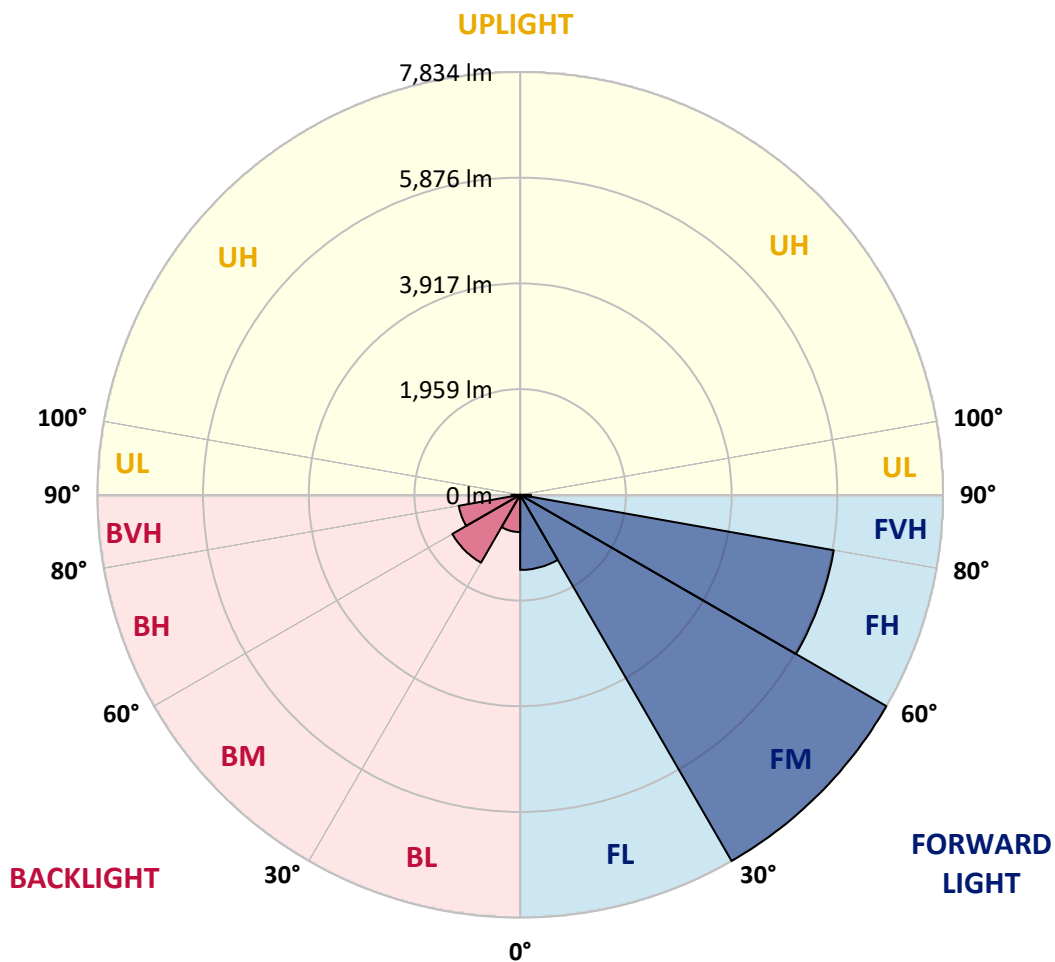
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1391.9	7.4			
FM (30°-60°)	7834.3	41.7			
FH (60°-80°)	5900.5	31.4			G3/7500
FVH (80°-90°)	198.0	1.1			G2/225
BL (0°-30°)	690.2	3.7	B2/1000		
BM (30°-60°)	1451.4	7.7	B2/2500		
BH (60°-80°)	1155.6	6.2	B3/2500		G3/2500
BVH (80°-90°)	162.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	2609.6	2609.6	2609.6	2609.6	2609.6	2609.6	2609.6	2609.6	2609.6	2609.6	2609.6
2.5°	2854.7	2838.1	2840.8	2836.2	2822.3	2798.3	2772.4	2725.2	2676.2	2650.3	2630.0
5°	3093.3	3088.7	3082.2	3067.4	3032.3	2982.3	2920.4	2837.1	2747.4	2700.3	2655.0
7.5°	3271.8	3269.0	3260.7	3251.4	3217.2	3157.1	3063.7	2945.3	2814.9	2750.2	2679.9
10°	3286.6	3291.2	3297.7	3322.6	3327.2	3294.9	3199.6	3056.3	2885.2	2802.0	2712.3
12.5°	3160.8	3171.0	3195.9	3259.7	3327.2	3367.0	3318.0	3172.8	2967.5	2866.7	2753.0
15°	2994.3	2999.9	3030.4	3118.3	3239.4	3362.4	3408.6	3301.4	3073.9	2950.0	2814.0
17.5°	2923.1	2925.9	2947.2	3005.4	3118.3	3294.0	3459.5	3441.0	3204.3	3053.5	2888.9
20°	2887.1	2893.5	2924.1	2981.4	3052.6	3206.1	3466.9	3591.7	3359.6	3183.0	2983.2
22.5°	2989.7	2986.9	2998.0	3026.7	3086.8	3179.3	3461.3	3747.1	3557.5	3349.4	3106.2
25°	3229.2	3239.4	3220.0	3187.6	3207.0	3271.8	3490.9	3915.4	3805.3	3563.1	3267.1
27.5°	3570.5	3560.3	3531.6	3455.8	3416.0	3443.8	3589.0	4096.6	4113.3	3844.2	3479.8
30°	3910.8	3902.4	3874.7	3782.2	3700.8	3677.7	3779.5	4304.7	4480.4	4181.7	3740.6
32.5°	4264.0	4254.8	4228.9	4136.4	4038.4	3984.7	4050.4	4545.1	4913.2	4584.9	4047.6
35°	4699.6	4682.0	4627.4	4498.9	4402.7	4361.1	4391.6	4847.5	5412.6	5062.1	4420.3
37.5°	5109.2	5136.1	5080.6	4903.0	4778.2	4763.4	4797.6	5216.5	5950.8	5595.7	4848.5
40°	5520.8	5525.4	5475.4	5330.3	5201.7	5177.7	5263.7	5664.1	6586.1	6233.7	5369.1
42.5°	5946.1	5955.4	5871.2	5737.1	5642.8	5647.4	5745.5	6188.4	7314.8	6985.6	5968.3
45°	6450.1	6464.0	6371.5	6195.8	6109.8	6282.8	6242.1	6776.6	8113.8	7840.0	6656.3
47.5°	6977.2	6998.5	6928.2	6763.6	6656.3	6894.0	6738.7	7428.5	8973.8	8756.5	7411.9
50°	7264.8	7295.4	7363.8	7351.8	7328.6	7288.9	7292.6	8127.6	9860.6	9710.8	8188.7
52.5°	7110.4	7109.5	7359.2	7662.5	7986.1	8010.2	7967.6	8864.7	10689.2	10643.9	8920.1
55°	6403.9	6452.0	6830.2	7417.4	8301.5	8853.6	8979.3	9708.9	11503.0	11555.7	9662.7
57.5°	5227.6	5267.4	5777.8	6596.2	7876.1	9354.8	10418.2	10936.1	12412.9	12658.9	10651.3
60°	3545.5	3593.6	4134.6	5117.6	6731.3	9075.5	11787.8	13125.9	13502.3	14061.7	12038.4
62.5°	2083.5	2126.9	2568.0	3228.3	4739.3	7778.1	12388.9	16241.4	15232.5	16178.5	14154.2
65°	1434.3	1463.9	1678.4	2009.5	2723.4	5238.7	11643.5	18392.3	17894.8	18801.1	16607.6
67.5°	1154.1	1150.4	1320.5	1546.2	1753.3	2701.2	8804.5	18149.1	20236.3	20614.5	17881.0
70°	950.6	946.9	1062.5	1249.3	1401.0	1521.2	4795.8	15315.7	19759.1	19912.6	16708.4
72.5°	795.3	799.0	873.0	1011.7	1149.5	1145.8	2107.5	10774.3	15544.1	16605.7	13319.2
75°	671.4	673.2	722.2	820.3	933.1	922.9	1143.0	5837.0	9035.7	9774.6	7383.2
77.5°	571.5	573.3	604.8	659.3	739.8	736.1	834.1	2521.8	3769.3	3723.0	2525.5
80°	509.5	509.5	524.3	534.5	578.9	562.2	618.7	1211.4	1593.3	1471.3	1008.0
82.5°	399.5	401.3	492.0	488.3	455.9	434.6	434.6	713.9	844.3	780.5	590.0
85°	224.7	223.8	317.2	382.8	401.3	306.1	303.3	399.5	459.6	405.0	285.7
87.5°	96.2	98.0	147.0	170.2	227.5	190.5	187.7	206.2	234.0	202.5	132.2
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°	2609.6	2609.6	2609.6	2609.6	2609.6	2609.6	2609.6	2609.6	2609.6	2609.6	2609.6
2.5°	2610.6	2586.5	2533.8	2468.2	2409.0	2370.1	2335.0	2284.1	2286.9	2251.8	2225.9
5°	2608.7	2558.8	2436.7	2291.5	2151.9	2051.1	1975.3	1906.8	1890.2	1857.8	1838.4
7.5°	2610.6	2529.2	2323.9	2091.8	1918.9	1791.2	1726.5	1690.4	1682.1	1671.0	1671.9
10°	2617.0	2502.4	2200.0	1905.0	1723.7	1639.6	1623.9	1635.0	1647.9	1651.6	1652.5
12.5°	2631.8	2478.3	2064.0	1738.5	1601.7	1575.8	1602.6	1640.5	1665.5	1677.5	1676.6
15°	2665.1	2459.8	1933.7	1608.1	1534.2	1548.0	1598.0	1651.6	1687.7	1704.3	1705.2
17.5°	2701.2	2433.0	1799.6	1508.3	1484.2	1519.4	1581.3	1644.2	1688.6	1707.1	1710.8
20°	2748.4	2399.7	1659.0	1433.4	1437.1	1476.8	1535.1	1598.0	1647.0	1662.7	1670.1
22.5°	2810.3	2363.7	1536.0	1372.3	1383.4	1413.9	1459.3	1513.8	1556.4	1563.8	1570.2
25°	2893.5	2324.8	1438.0	1316.8	1321.5	1339.0	1369.6	1401.9	1431.5	1423.2	1429.7
27.5°	3005.4	2291.5	1364.9	1266.0	1257.7	1261.4	1277.1	1287.3	1303.0	1279.9	1282.6
30°	3136.8	2255.5	1308.5	1221.6	1198.5	1192.0	1195.7	1201.2	1213.3	1181.8	1177.2
32.5°	3289.3	2212.0	1255.8	1182.8	1150.4	1137.4	1139.3	1154.1	1200.3	1180.9	1170.7
35°	3466.9	2163.0	1200.3	1140.2	1118.0	1099.5	1097.7	1143.9	1281.7	1269.7	1260.4
37.5°	3675.0	2114.0	1144.8	1092.1	1094.0	1073.6	1067.2	1119.9	1297.4	1250.3	1243.8
40°	3939.4	2088.1	1097.7	1041.3	1064.4	1061.6	1048.7	1075.5	1193.9	1107.9	1096.8
42.5°	4266.8	2091.8	1062.5	986.7	1029.2	1058.8	1038.5	1039.4	1082.0	1017.2	1007.1
45°	4670.9	2135.2	1037.6	943.2	989.5	1056.1	1034.8	1020.0	1023.7	989.5	983.9
47.5°	5142.5	2224.9	1020.0	907.2	951.6	1045.9	1033.9	1014.5	1006.1	987.6	983.0
50°	5666.9	2355.3	1007.1	873.0	917.4	1029.2	1034.8	1008.9	999.7	992.3	989.5
52.5°	6182.0	2504.2	987.6	843.4	890.5	1008.9	1037.6	1003.4	993.2	987.6	984.9
55°	6756.2	2690.1	958.0	818.4	868.3	983.0	1037.6	995.0	983.9	984.9	983.9
57.5°	7532.1	2990.6	922.9	797.1	841.5	951.6	1020.0	985.8	971.9	972.8	973.8
60°	8744.4	3520.5	880.4	775.9	808.2	914.6	996.0	965.4	951.6	955.3	956.2
62.5°	10527.4	4298.2	824.9	744.4	773.1	874.8	962.7	939.5	925.7	934.9	934.9
65°	12380.6	4984.4	756.4	704.7	736.1	831.4	921.1	907.2	893.3	914.6	913.7
67.5°	12879.0	4830.9	688.0	661.2	699.1	783.3	871.1	863.7	856.3	893.3	891.5
70°	11441.0	3878.4	625.1	616.8	658.4	731.5	817.5	817.5	812.9	840.6	834.1
72.5°	8716.7	2750.2	565.0	569.6	612.2	675.1	759.2	765.7	758.3	772.2	766.6
75°	4666.3	1573.9	504.9	517.9	554.8	617.7	694.5	701.0	696.3	695.4	698.2
77.5°	1550.8	769.4	442.0	462.4	494.7	558.5	627.0	637.2	626.1	624.2	623.3
80°	690.8	483.6	372.7	399.5	428.2	491.0	555.8	564.1	552.1	568.7	547.5
82.5°	443.9	318.1	298.7	328.3	356.0	423.5	484.6	486.4	475.3	552.1	470.7
85°	215.5	197.0	224.7	251.5	275.6	332.9	401.3	402.3	374.5	341.2	329.2
87.5°	107.3	114.7	149.8	173.9	185.9	228.4	292.2	286.7	274.7	249.7	230.3
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)