

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: P191681

Luminaire Tested: **GLEON-AF-03-LED-E1-5WQ-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-5WQ-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15465 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 124
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

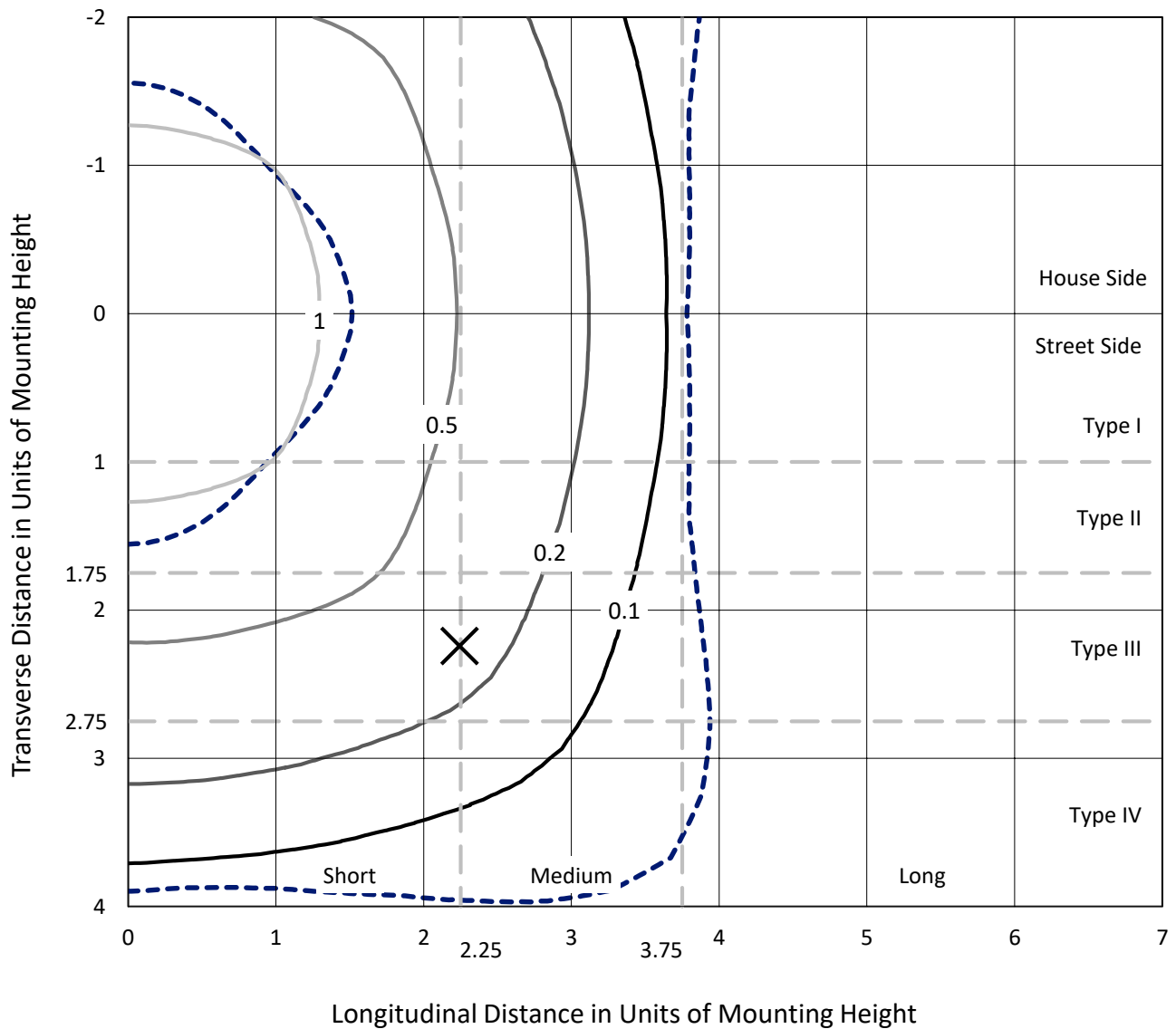


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

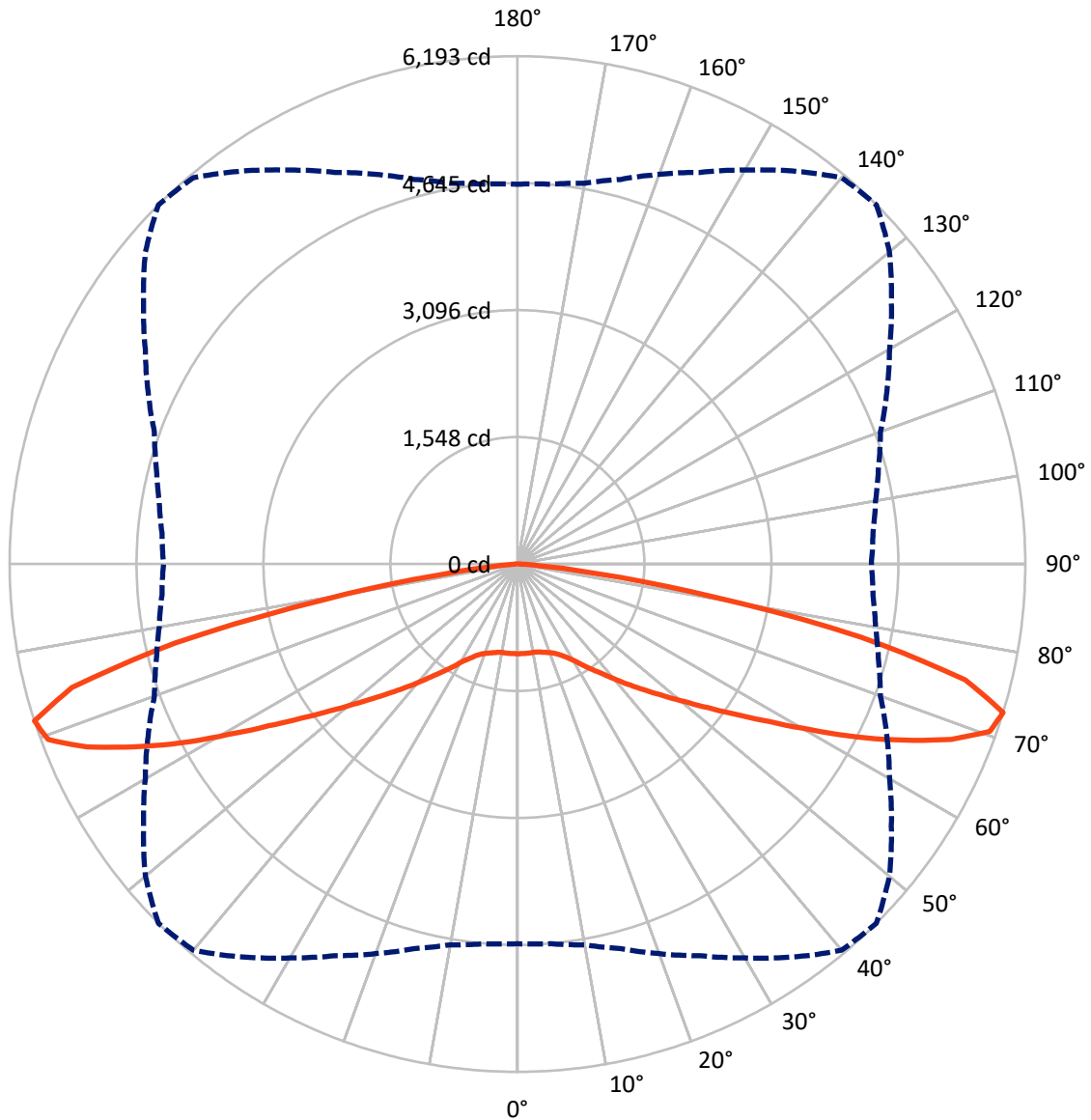


Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7732.5	0.0	7732.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7732.5	0.0	7732.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15465.0	0.0	15465.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	0.7
10°-20°	317.6	2.1
20°-30°	580.4	3.8
30°-40°	1000.7	6.5
40°-50°	1710.7	11.1
50°-60°	2772.8	17.9
60°-70°	4600.0	29.7
70°-80°	4051.5	26.2
80°-90°	326.7	2.1
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°	15465.0	100.0
0°-180°	15465.0	100.0



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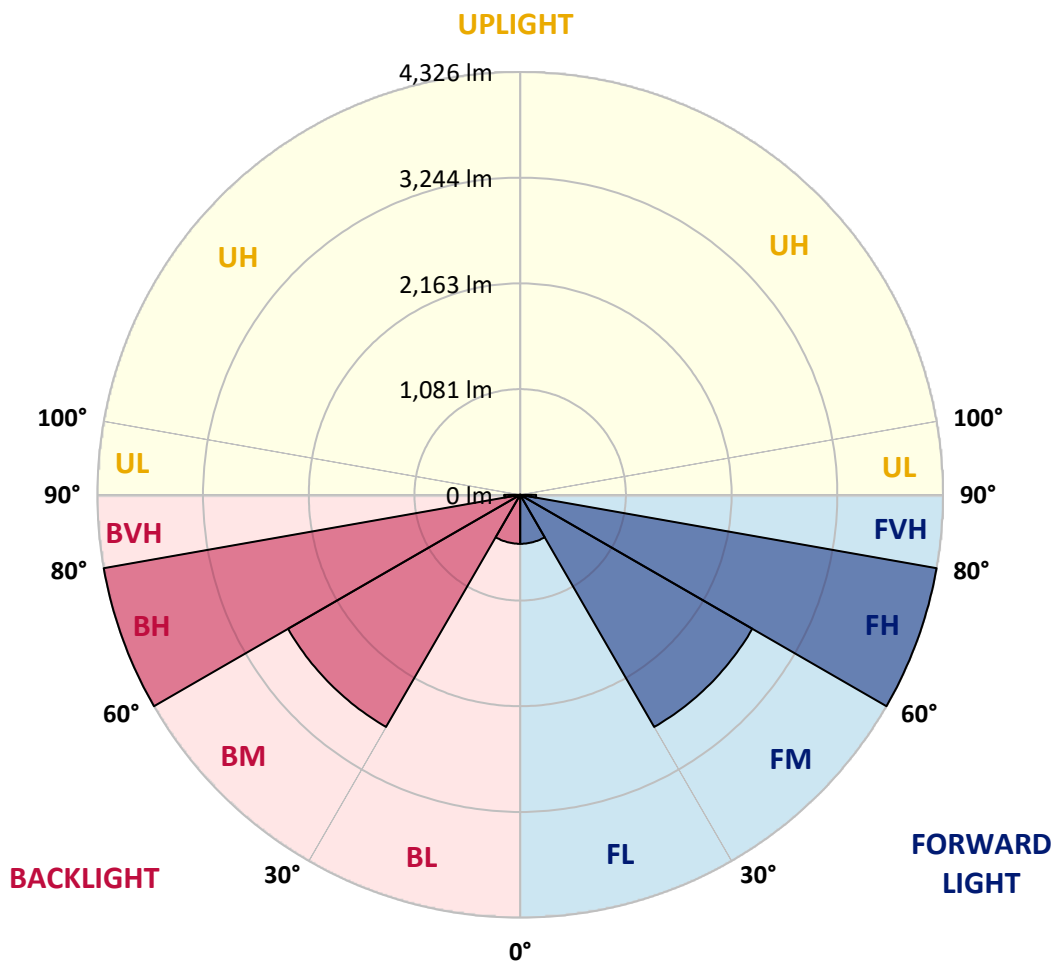
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	501.3	3.2			
FM (30°-60°)	2742.1	17.7			
FH (60°-80°)	4325.8	28.0			G2/5000
FVH (80°-90°)	163.3	1.1			G2/225
BL (0°-30°)	501.3	3.2	B2/1000		
BM (30°-60°)	2742.1	17.7	B3/5000		
BH (60°-80°)	4325.8	28.0	B4/5000		G2/5000
BVH (80°-90°)	163.3	1.1			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1095.2	1095.2	1095.2	1095.2	1095.2	1095.2	1095.2	1095.2	1095.2	1095.2	1095.2
2.5°	1095.2	1095.9	1096.6	1095.9	1095.9	1095.2	1094.5	1095.2	1094.5	1093.0	1093.7
5°	1098.7	1100.1	1100.1	1098.7	1099.4	1098.7	1097.3	1098.0	1096.6	1094.5	1094.5
7.5°	1103.0	1103.7	1103.7	1102.3	1103.0	1101.5	1100.1	1099.4	1098.0	1095.2	1093.0
10°	1109.3	1110.1	1109.3	1107.9	1107.9	1105.8	1102.3	1100.8	1098.0	1093.7	1091.6
12.5°	1116.4	1117.2	1116.4	1115.0	1114.3	1110.8	1107.9	1105.8	1103.7	1100.1	1096.6
15°	1126.4	1127.8	1126.4	1123.5	1121.4	1118.6	1117.2	1117.9	1118.6	1115.7	1112.2
17.5°	1144.8	1145.5	1143.4	1137.0	1134.2	1131.3	1131.3	1132.8	1134.9	1133.5	1129.9
20°	1178.9	1176.7	1171.8	1164.0	1160.4	1155.5	1154.7	1155.5	1155.5	1154.7	1151.9
22.5°	1221.4	1220.0	1213.6	1203.7	1198.7	1195.9	1191.6	1188.1	1187.4	1185.2	1182.4
25°	1272.5	1271.8	1264.0	1255.5	1251.9	1248.4	1244.8	1239.9	1235.6	1230.6	1227.8
27.5°	1337.7	1334.9	1323.6	1319.3	1314.3	1312.2	1307.2	1301.6	1298.0	1291.6	1288.1
30°	1409.4	1409.4	1400.2	1398.7	1398.7	1393.8	1388.1	1378.2	1371.8	1365.4	1363.3
32.5°	1481.0	1481.7	1472.5	1475.3	1477.5	1481.0	1482.4	1478.9	1474.6	1473.9	1469.7
35°	1584.6	1581.7	1572.5	1574.7	1573.9	1573.2	1573.2	1581.0	1582.5	1583.9	1575.4
37.5°	1713.0	1713.0	1703.7	1703.7	1699.5	1695.2	1689.6	1694.5	1702.3	1704.5	1698.8
40°	1859.8	1864.8	1853.4	1852.7	1854.1	1840.6	1834.3	1842.1	1847.0	1855.5	1849.2
42.5°	2032.9	2029.3	2018.0	2016.5	2008.7	2004.5	1998.8	2005.2	2013.0	2018.7	2020.8
45°	2198.8	2196.0	2183.2	2183.2	2175.4	2171.9	2174.7	2185.4	2188.9	2196.7	2204.5
47.5°	2362.7	2359.1	2350.6	2354.2	2354.9	2361.3	2370.5	2380.4	2390.3	2401.0	2404.5
50°	2530.1	2530.8	2521.6	2530.1	2540.7	2558.5	2583.3	2599.6	2620.2	2633.6	2637.9
52.5°	2682.6	2685.4	2695.3	2715.2	2736.5	2771.2	2813.8	2853.5	2887.6	2910.3	2908.8
55°	2865.6	2869.8	2894.0	2928.0	2962.8	3015.2	3078.4	3148.6	3205.3	3238.0	3217.4
57.5°	3099.6	3108.9	3135.8	3181.9	3233.7	3301.8	3388.3	3494.0	3582.0	3626.0	3592.6
60°	3421.0	3426.6	3459.3	3510.3	3572.8	3657.2	3772.8	3914.6	4038.8	4096.9	4058.6
62.5°	3844.4	3855.1	3881.3	3933.1	3996.9	4092.7	4233.8	4411.1	4565.8	4646.6	4560.1
65°	4350.1	4384.2	4406.2	4458.7	4518.3	4619.7	4767.2	4957.3	5123.3	5176.5	5076.5
67.5°	4850.9	4880.7	4919.0	4979.3	5039.6	5153.8	5290.7	5475.1	5657.4	5705.6	5550.3
70°	5070.1	5087.1	5146.7	5229.0	5344.6	5479.4	5637.5	5844.6	6070.2	6109.9	5912.7
72.5°	4631.0	4648.1	4714.7	4854.5	5055.9	5270.1	5546.0	5850.3	6148.2	6192.9	5921.3
75°	3502.5	3474.9	3573.5	3758.6	4030.3	4328.9	4714.7	5151.0	5581.5	5637.5	5313.4
77.5°	1810.1	1806.6	1881.1	2110.9	2435.0	2774.8	3199.7	3692.6	4114.0	4284.2	4020.3
80°	510.0	515.7	551.1	665.3	854.7	1100.1	1432.1	1893.8	2238.6	2414.5	2266.9
82.5°	200.0	215.6	229.1	250.4	275.2	311.4	415.7	618.5	829.9	991.6	812.2
85°	71.6	76.6	108.5	128.4	130.5	137.6	156.8	183.0	220.6	263.2	216.3
87.5°	27.0	29.8	34.8	57.5	56.7	51.8	63.1	66.0	49.7	45.4	56.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1095.2	1095.2	1095.2	1095.2	1095.2	1095.2	1095.2	1095.2
2.5°	1092.3	1093.0	1093.0	1093.7	1094.5	1094.5	1095.9	1095.9
5°	1093.0	1093.0	1091.6	1092.3	1091.6	1091.6	1092.3	1092.3
7.5°	1091.6	1090.9	1089.5	1088.8	1087.4	1087.4	1087.4	1087.4
10°	1089.5	1088.8	1087.4	1086.7	1085.9	1085.9	1085.9	1085.9
12.5°	1095.2	1093.0	1091.6	1090.9	1090.9	1090.9	1090.9	1090.9
15°	1110.1	1105.1	1101.5	1101.5	1102.3	1103.7	1103.7	1105.1
17.5°	1128.5	1122.8	1119.3	1116.4	1117.9	1120.0	1121.4	1122.8
20°	1150.5	1147.7	1142.7	1139.8	1139.8	1142.7	1144.1	1144.8
22.5°	1181.0	1178.9	1176.7	1173.2	1173.2	1174.6	1177.4	1177.4
25°	1226.4	1225.0	1223.5	1220.7	1220.0	1220.0	1221.4	1222.8
27.5°	1283.1	1283.8	1282.4	1281.7	1279.6	1278.9	1281.0	1280.3
30°	1359.0	1362.6	1366.1	1363.3	1359.7	1357.6	1355.5	1352.6
32.5°	1461.9	1457.6	1454.8	1449.8	1443.4	1437.8	1433.5	1428.5
35°	1559.0	1552.0	1549.1	1553.4	1552.7	1549.1	1544.2	1539.9
37.5°	1678.2	1676.8	1678.2	1686.0	1684.6	1688.1	1678.2	1677.5
40°	1828.6	1830.0	1839.9	1849.2	1854.1	1859.1	1853.4	1847.7
42.5°	2003.1	2002.4	2005.9	2018.7	2027.2	2032.9	2020.8	2019.4
45°	2187.5	2182.5	2185.4	2196.0	2204.5	2210.9	2197.4	2197.4
47.5°	2390.3	2381.8	2372.6	2384.7	2389.6	2393.9	2383.3	2379.7
50°	2616.6	2598.9	2579.0	2584.0	2584.0	2582.6	2569.1	2568.4
52.5°	2876.2	2843.6	2807.4	2793.9	2786.1	2777.6	2754.2	2742.9
55°	3174.8	3125.9	3069.1	3034.4	3016.0	2992.5	2953.5	2942.9
57.5°	3523.8	3447.2	3349.3	3306.8	3265.6	3227.3	3184.1	3172.0
60°	3937.3	3824.6	3694.8	3616.0	3571.3	3534.5	3489.8	3487.6
62.5°	4398.4	4220.3	4073.5	4002.6	3970.0	3937.3	3894.8	3900.5
65°	4867.2	4681.4	4543.8	4486.3	4455.8	4428.9	4386.3	4392.7
67.5°	5329.7	5158.8	5007.7	4948.8	4914.8	4880.7	4842.4	4848.8
70°	5661.6	5449.6	5279.3	5148.8	5067.3	4975.0	4915.5	4900.6
72.5°	5566.6	5239.6	4969.4	4710.5	4558.7	4435.3	4351.6	4315.4
75°	4817.6	4370.7	4023.2	3705.4	3526.6	3381.2	3275.6	3209.6
77.5°	3577.7	3075.5	2664.8	2298.8	2009.5	1815.1	1678.2	1589.5
80°	1958.4	1489.5	1088.8	765.3	562.5	467.4	412.8	386.6
82.5°	610.0	393.7	290.1	250.4	232.7	222.7	206.4	180.2
85°	194.3	170.2	158.2	151.1	144.0	125.5	86.5	78.7
87.5°	75.2	77.3	76.6	72.3	73.8	53.2	42.6	37.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)