

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: P192162

Luminaire Tested: **GLEON-AF-04-LED-E1-T2-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192162
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-04-LED-E1-T2-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19038 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

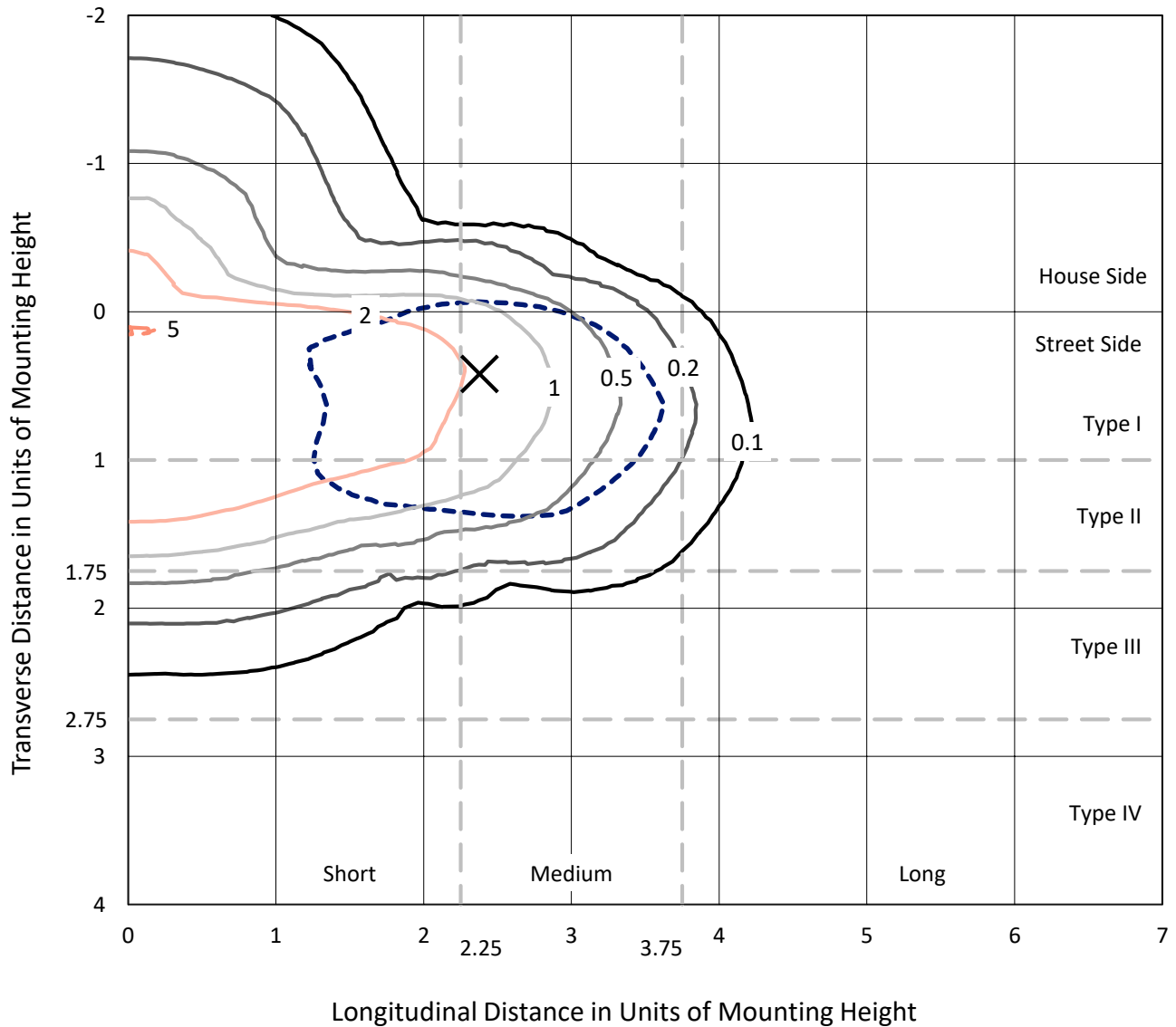
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

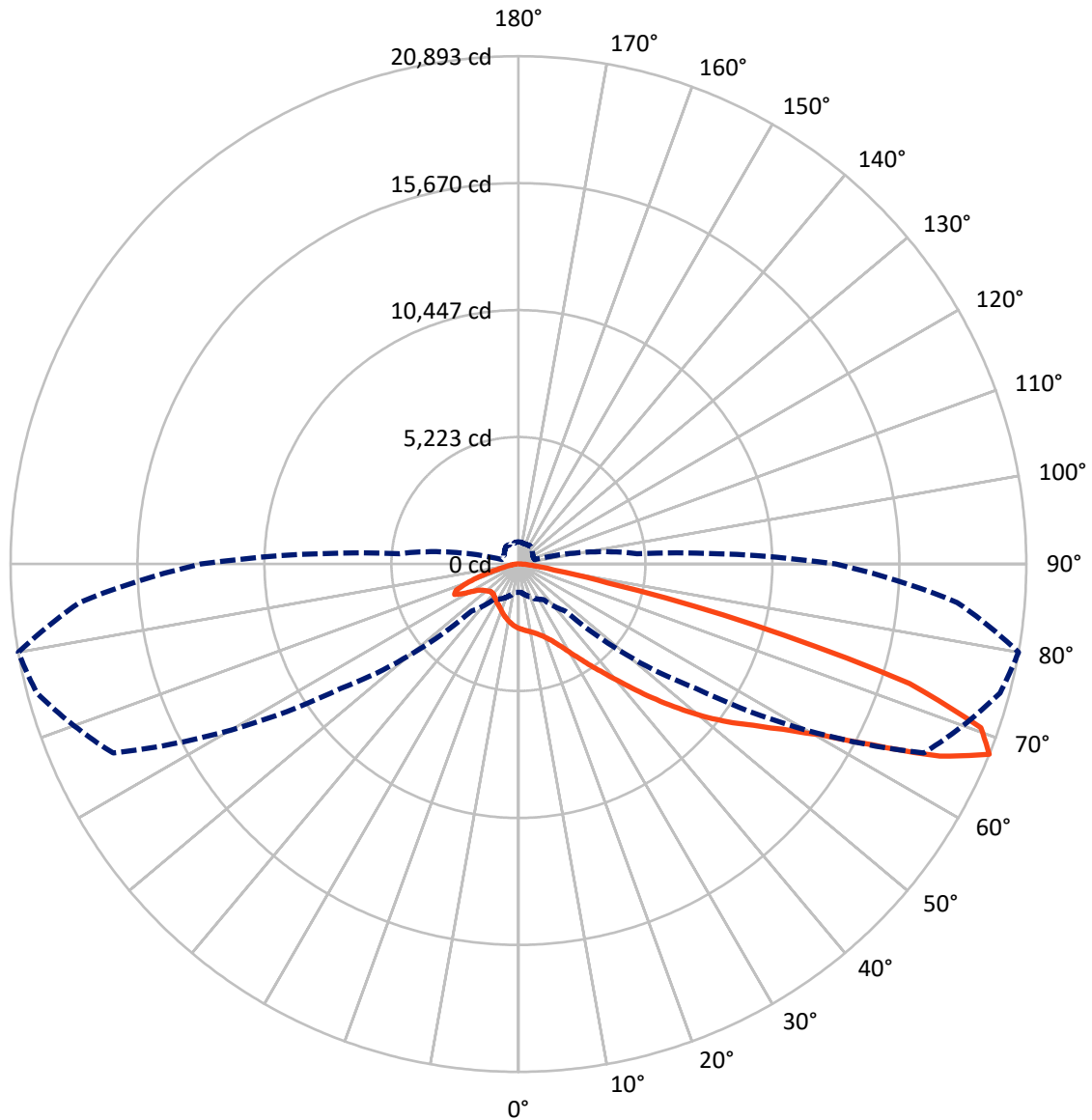
× Max cd
 - - - 1/2 Max cd



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	3506.1	0.0	3506.1
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	15531.9	0.0	15531.9
	% Fixture	81.6	0.0	81.6
Total	Lumens	19038.0	0.0	19038.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.0	1.3
10°-20°	702.8	3.7
20°-30°	1163.4	6.1
30°-40°	1903.0	10.0
40°-50°	3072.5	16.1
50°-60°	4435.8	23.3
60°-70°	4895.2	25.7
70°-80°	2256.4	11.9
80°-90°	365.0	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°	19038.0	100.0
0°-180°	19038.0	100.0



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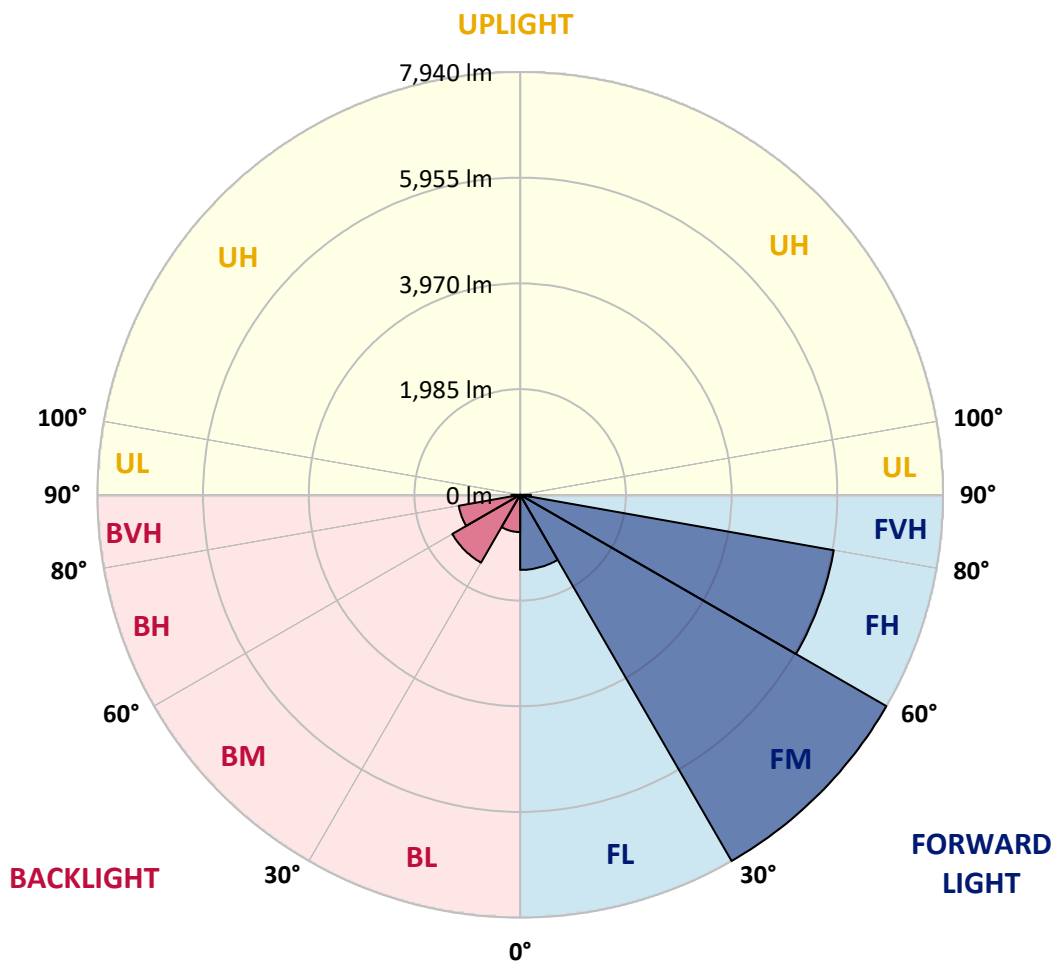
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1410.7	7.4			
FM (30°-60°)	7940.3	41.7			
FH (60°-80°)	5980.3	31.4			G3/7500
FVH (80°-90°)	200.7	1.1			G2/225
BL (0°-30°)	699.5	3.7	B2/1000		
BM (30°-60°)	1471.0	7.7	B2/2500		
BH (60°-80°)	1171.2	6.2	B3/2500		G3/2500
BVH (80°-90°)	164.3	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	2644.9	2644.9	2644.9	2644.9	2644.9	2644.9	2644.9	2644.9	2644.9	2644.9	2644.9
2.5°	2893.3	2876.4	2879.2	2874.6	2860.5	2836.1	2809.9	2762.1	2712.4	2686.2	2665.6
5°	3135.1	3130.4	3123.9	3108.9	3073.3	3022.6	2959.8	2875.5	2784.6	2736.8	2690.9
7.5°	3316.0	3313.2	3304.8	3295.4	3260.7	3199.8	3105.1	2985.2	2853.0	2787.4	2716.2
10°	3331.0	3335.7	3342.2	3367.6	3372.2	3339.4	3242.9	3097.6	2924.2	2839.9	2749.0
12.5°	3203.5	3213.8	3239.2	3303.8	3372.2	3412.5	3362.9	3215.7	3007.6	2905.5	2790.2
15°	3034.8	3040.5	3071.4	3160.4	3283.2	3407.9	3454.7	3346.0	3115.4	2989.8	2852.1
17.5°	2962.7	2965.5	2987.0	3046.1	3160.4	3338.5	3506.3	3487.5	3247.6	3094.8	2928.0
20°	2926.1	2932.7	2963.6	3021.7	3093.9	3249.5	3513.8	3640.3	3405.0	3226.0	3023.6
22.5°	3030.1	3027.3	3038.6	3067.6	3128.6	3222.3	3508.1	3797.8	3605.6	3394.7	3148.2
25°	3272.9	3283.2	3263.5	3230.7	3250.4	3316.0	3538.1	3968.3	3856.8	3611.2	3311.3
27.5°	3618.7	3608.4	3579.4	3502.5	3462.2	3490.3	3637.5	4152.0	4168.9	3896.2	3526.9
30°	3963.6	3955.2	3927.1	3833.4	3750.9	3727.5	3830.6	4362.9	4541.0	4238.3	3791.2
32.5°	4321.7	4312.3	4286.1	4192.3	4093.0	4038.6	4105.2	4606.6	4979.6	4646.9	4102.4
35°	4763.1	4745.3	4690.0	4559.7	4462.3	4420.1	4451.0	4913.1	5485.7	5130.5	4480.1
37.5°	5178.3	5205.5	5149.3	4969.3	4842.8	4827.8	4862.5	5287.1	6031.2	5671.3	4914.0
40°	5595.4	5600.1	5549.5	5402.3	5272.1	5247.7	5334.9	5740.7	6675.1	6318.0	5441.7
42.5°	6026.5	6035.9	5950.6	5814.7	5719.1	5723.8	5823.2	6272.1	7413.7	7080.0	6049.0
45°	6537.3	6551.4	6457.7	6279.6	6192.4	6367.7	6326.5	6868.2	8223.5	7946.0	6746.4
47.5°	7071.6	7093.1	7021.9	6855.1	6746.4	6987.2	6829.8	7529.0	9095.1	8874.9	7512.1
50°	7363.1	7394.0	7463.4	7451.2	7427.7	7387.4	7391.2	8237.5	9993.9	9842.1	8299.4
52.5°	7206.5	7205.6	7458.7	7766.1	8094.1	8118.5	8075.4	8984.5	10833.7	10787.8	9040.8
55°	6490.5	6539.2	6922.6	7517.7	8413.7	8973.3	9100.7	9840.2	11658.5	11711.9	9793.4
57.5°	5298.3	5338.6	5856.0	6685.4	7982.6	9481.3	10559.1	11084.0	12580.8	12830.1	10795.3
60°	3593.4	3642.2	4190.5	5186.8	6822.3	9198.2	11947.2	13303.4	13684.9	14251.9	12201.2
62.5°	2111.6	2155.7	2602.8	3272.0	4803.4	7883.2	12556.4	16461.0	15438.5	16397.3	14345.6
65°	1453.7	1483.7	1701.1	2036.7	2760.2	5309.5	11801.0	18641.1	18136.8	19055.3	16832.2
67.5°	1169.7	1165.9	1338.4	1567.1	1777.0	2737.7	8923.6	18394.6	20509.9	20893.3	18122.8
70°	963.5	959.7	1076.9	1266.2	1419.9	1541.8	4860.6	15522.8	20026.3	20181.9	16934.3
72.5°	806.0	809.8	884.8	1025.4	1165.0	1161.3	2136.0	10920.0	15754.3	16830.3	13499.3
75°	680.4	682.3	732.0	831.3	945.7	935.4	1158.4	5915.9	9157.9	9906.8	7483.0
77.5°	579.2	581.1	613.0	668.3	749.8	746.1	845.4	2555.9	3820.2	3773.4	2559.6
80°	516.4	516.4	531.4	541.7	586.7	569.9	627.0	1227.8	1614.9	1491.2	1021.6
82.5°	404.9	406.8	498.6	494.9	462.1	440.5	440.5	723.6	855.7	791.0	598.0
85°	227.8	226.8	321.5	388.0	406.8	310.2	307.4	404.9	465.8	410.5	289.6
87.5°	97.5	99.3	149.0	172.5	230.6	193.1	190.3	209.0	237.1	205.3	134.0
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°	2644.9	2644.9	2644.9	2644.9	2644.9	2644.9	2644.9	2644.9	2644.9	2644.9	2644.9
2.5°	2645.9	2621.5	2568.1	2501.5	2441.5	2402.2	2366.6	2315.0	2317.8	2282.2	2256.0
5°	2644.0	2593.4	2469.7	2322.5	2181.0	2078.8	2002.0	1932.6	1915.7	1882.9	1863.3
7.5°	2645.9	2563.4	2355.3	2120.1	1944.8	1815.5	1749.9	1713.3	1704.9	1693.6	1694.6
10°	2652.4	2536.2	2229.7	1930.7	1747.0	1661.8	1645.8	1657.1	1670.2	1673.9	1674.9
12.5°	2667.4	2511.8	2092.0	1762.0	1623.3	1597.1	1624.3	1662.7	1688.0	1700.2	1699.2
15°	2701.2	2493.1	1959.8	1629.9	1554.9	1569.0	1619.6	1673.9	1710.5	1727.4	1728.3
17.5°	2737.7	2465.9	1823.9	1528.7	1504.3	1539.9	1602.7	1666.4	1711.4	1730.2	1733.9
20°	2785.5	2432.2	1681.4	1452.7	1456.5	1496.8	1555.8	1619.6	1669.3	1685.2	1692.7
22.5°	2848.3	2395.6	1556.8	1390.9	1402.1	1433.1	1479.0	1534.3	1577.4	1584.9	1591.5
25°	2932.7	2356.3	1457.4	1334.7	1339.3	1357.1	1388.1	1420.9	1450.9	1442.4	1449.0
27.5°	3046.1	2322.5	1383.4	1283.1	1274.7	1278.4	1294.3	1304.7	1320.6	1297.2	1300.0
30°	3179.2	2286.0	1326.2	1238.1	1214.7	1208.1	1211.9	1217.5	1229.7	1197.8	1193.1
32.5°	3333.8	2241.9	1272.8	1198.7	1165.9	1152.8	1154.7	1169.7	1216.6	1196.9	1186.6
35°	3513.8	2192.2	1216.6	1155.6	1133.1	1114.4	1112.5	1159.4	1299.0	1286.9	1277.5
37.5°	3724.6	2142.6	1160.3	1106.9	1108.8	1088.2	1081.6	1135.0	1315.0	1267.2	1260.6
40°	3992.7	2116.3	1112.5	1055.3	1078.8	1076.0	1062.8	1090.0	1210.0	1122.8	1111.6
42.5°	4324.5	2120.1	1076.9	1000.1	1043.2	1073.2	1052.5	1053.5	1096.6	1031.0	1020.7
45°	4734.1	2164.1	1051.6	956.0	1002.9	1070.3	1048.8	1033.8	1037.5	1002.9	997.2
47.5°	5212.1	2255.0	1033.8	919.4	964.4	1060.0	1047.9	1028.2	1019.7	1001.0	996.3
50°	5743.5	2387.2	1020.7	884.8	929.8	1043.2	1048.8	1022.5	1013.2	1005.7	1002.9
52.5°	6265.5	2538.1	1001.0	854.8	902.6	1022.5	1051.6	1016.9	1006.6	1001.0	998.2
55°	6847.6	2726.5	971.0	829.5	880.1	996.3	1051.6	1008.5	997.2	998.2	997.2
57.5°	7633.9	3031.1	935.4	807.9	852.9	964.4	1033.8	999.1	985.1	986.0	986.9
60°	8862.7	3568.1	892.3	786.4	819.2	926.9	1009.4	978.5	964.4	968.2	969.1
62.5°	10669.7	4356.4	836.0	754.5	783.5	886.6	975.7	952.3	938.2	947.6	947.6
65°	12548.0	5051.8	766.7	714.2	746.1	842.6	933.5	919.4	905.4	926.9	926.0
67.5°	13053.1	4896.2	697.3	670.1	708.6	793.9	882.9	875.4	867.9	905.4	903.5
70°	11595.7	3930.8	633.6	625.1	667.3	741.4	828.5	828.5	823.8	852.0	845.4
72.5°	8834.6	2787.4	572.7	577.3	620.5	684.2	769.5	776.0	768.5	782.6	777.0
75°	4729.4	1595.2	511.7	524.9	562.4	626.1	703.9	710.4	705.8	704.8	707.6
77.5°	1571.8	779.8	448.0	468.6	501.4	566.1	635.5	645.8	634.5	632.6	631.7
80°	700.1	490.2	377.7	404.9	433.9	497.7	563.3	571.7	559.5	576.4	554.9
82.5°	449.9	322.4	302.7	332.7	360.8	429.3	491.1	493.0	481.7	559.5	477.1
85°	218.4	199.6	227.8	254.9	279.3	337.4	406.8	407.7	379.6	345.8	333.7
87.5°	108.7	116.2	151.8	176.2	188.4	231.5	296.2	290.5	278.4	253.1	233.4
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)