

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: P455028

Luminaire Tested: **GALN-SA6A-830-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22052 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

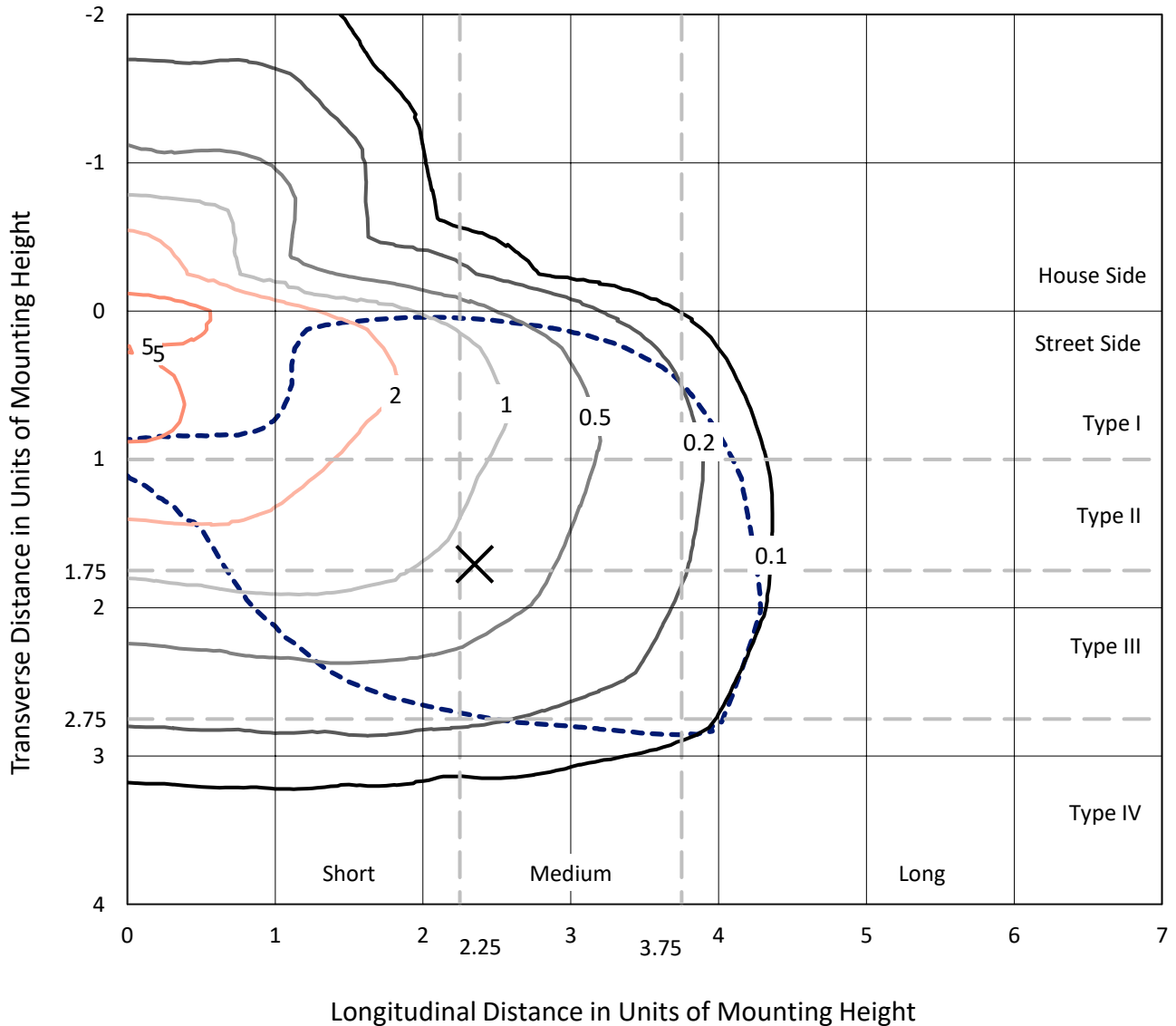
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

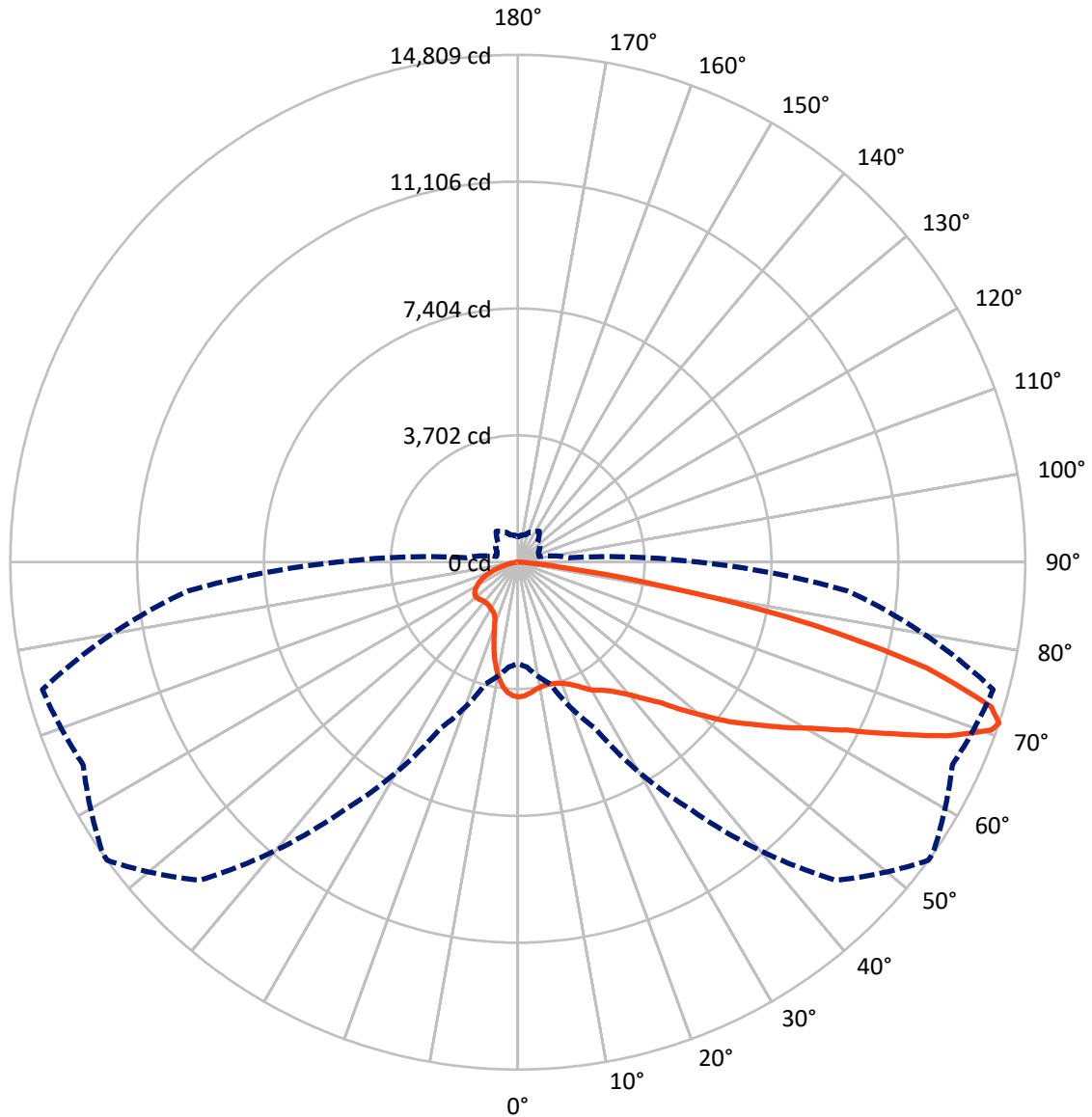
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3981.3	0.0	3981.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	18070.6	0.0	18070.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	22052.0	0.0	22052.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.6	1.6
10°-20°	925.8	4.2
20°-30°	1541.5	7.0
30°-40°	2279.4	10.3
40°-50°	3210.6	14.6
50°-60°	4299.1	19.5
60°-70°	5418.7	24.6
70°-80°	3700.9	16.8
80°-90°	325.5	1.5
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°	22052.0	100.0
0°-180°	22052.0	100.0

Coefficient of Utilization



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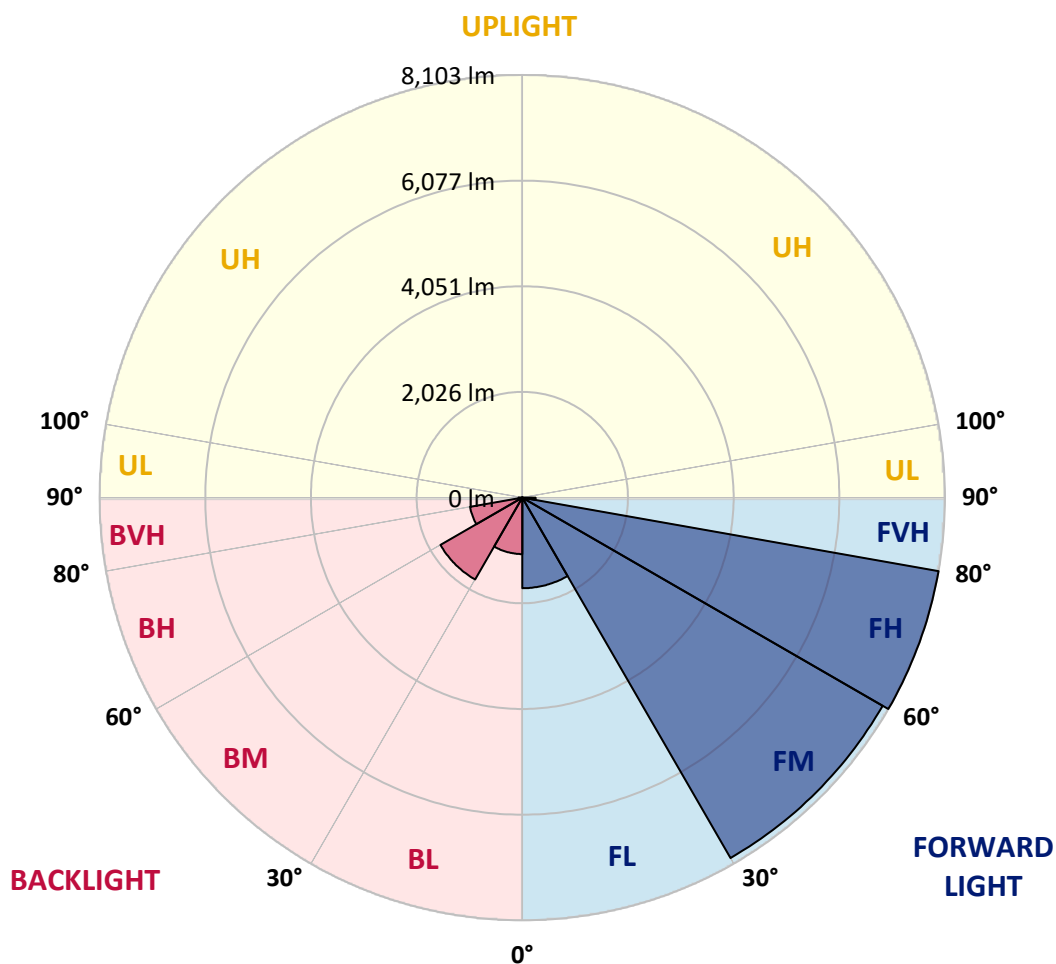
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1735.8	7.9			
FM	(30°-60°)	7977.6	36.2			
FH	(60°-80°)	8102.8	36.7			G4/12000
FVH	(80°-90°)	254.4	1.2			G3/500
BL	(0°-30°)	1082.1	4.9	B3/2500		
BM	(30°-60°)	1811.4	8.2	B2/2500		
BH	(60°-80°)	1016.8	4.6	B3/2500		G3/2500
BVH	(80°-90°)	71.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3934.4	3934.4	3934.4	3934.4	3934.4	3934.4	3934.4	3934.4	3934.4	3934.4	3934.4
2.5°	3801.0	3818.9	3823.6	3835.5	3860.6	3880.8	3901.1	3898.7	3927.3	3939.2	3949.9
5°	3631.8	3636.6	3654.5	3678.3	3722.4	3778.4	3833.2	3834.3	3904.6	3960.6	3988.0
7.5°	3508.0	3523.5	3535.4	3560.4	3606.8	3667.6	3754.5	3761.7	3886.8	3997.5	4055.9
10°	3427.0	3444.8	3457.9	3488.9	3535.4	3603.3	3697.4	3710.5	3873.7	4055.9	4158.3
12.5°	3353.1	3371.0	3382.9	3423.4	3484.1	3567.5	3673.5	3689.0	3878.4	4123.8	4270.3
15°	3398.4	3412.7	3407.9	3419.8	3460.3	3555.6	3683.1	3698.6	3896.3	4189.3	4381.1
17.5°	3599.7	3611.6	3572.3	3527.0	3508.0	3578.2	3712.8	3729.5	3932.0	4257.2	4494.2
20°	3896.3	3928.4	3842.7	3741.4	3649.7	3659.2	3774.8	3792.7	3982.0	4325.1	4609.8
22.5°	4282.2	4306.0	4201.2	4034.5	3865.3	3778.4	3867.7	3878.4	4057.1	4413.2	4736.1
25°	4736.1	4750.3	4605.0	4390.6	4146.4	3982.0	3995.2	4014.2	4181.0	4513.3	4848.0
27.5°	5176.8	5222.0	5054.1	4792.0	4470.4	4196.5	4170.3	4182.2	4315.6	4569.3	4925.4
30°	5699.7	5696.1	5518.6	5214.9	4802.8	4429.9	4335.8	4333.4	4388.2	4596.7	4981.4
32.5°	6116.6	6165.4	5991.5	5660.4	5182.7	4671.7	4450.2	4445.4	4444.2	4644.3	5064.8
35°	6590.7	6597.8	6438.2	6104.7	5593.7	4975.5	4609.8	4586.0	4558.6	4746.8	5178.0
37.5°	7014.7	7048.1	6901.6	6527.6	5997.5	5291.1	4829.0	4813.5	4730.1	4924.3	5359.0
40°	7345.9	7370.9	7282.8	6926.6	6395.3	5631.8	5107.7	5079.1	4977.9	5214.9	5600.8
42.5°	7454.3	7505.5	7540.0	7364.9	6852.7	6035.6	5450.8	5415.0	5337.6	5655.6	5879.6
45°	7462.6	7543.6	7725.9	7734.2	7312.5	6519.2	5851.0	5826.0	5820.0	6220.2	6271.5
47.5°	7399.5	7481.7	7787.8	7953.4	7722.3	7007.6	6428.7	6389.4	6393.0	6918.3	6711.0
50°	7247.0	7344.7	7716.3	8093.9	8042.7	7515.0	7038.6	7025.5	7099.3	7715.1	7167.2
52.5°	6960.0	7077.9	7642.5	8182.1	8280.9	7952.2	7731.8	7694.9	7881.9	8579.9	7666.3
55°	6165.4	6342.9	7372.1	8230.9	8507.3	8370.3	8356.0	8422.7	8670.5	9523.3	8215.4
57.5°	5750.9	5884.3	6784.9	8239.3	8793.1	8856.3	9085.0	9101.7	9535.2	10525.1	8836.0
60°	5524.6	5642.5	6463.2	8184.5	9192.2	9457.8	9830.6	9890.2	10379.8	11610.2	9479.3
62.5°	5326.9	5428.1	6270.3	7995.1	9642.4	10350.0	10796.7	10825.3	11338.7	12808.5	10114.1
65°	4861.1	4976.7	5882.0	7805.7	10030.8	11464.9	12078.4	12045.0	12359.5	13842.5	10512.0
67.5°	4233.4	4379.9	5156.5	7151.7	10222.5	12683.5	13522.1	13480.4	13367.2	14520.2	10626.3
70°	3431.7	3510.4	4228.6	6021.3	9456.6	13323.1	14662.0	14617.9	13991.4	14609.6	10085.6
71°	2952.9	3075.6	3681.9	5348.3	8819.4	13127.8	14808.5	14796.6	13992.6	14363.0	9678.2
72.5°	2304.9	2379.9	2916.0	4144.0	7496.0	12017.6	14446.4	14491.7	13688.8	13678.1	8838.4
75°	1458.0	1491.3	1829.6	2439.5	4113.1	8510.8	12332.1	12454.8	12154.6	11195.7	6572.8
77.5°	846.9	889.8	1095.9	1437.7	1777.2	4619.3	8824.1	8957.5	8445.3	6164.3	2690.8
80°	493.1	540.8	721.8	835.0	815.9	1714.1	4493.1	4720.6	3656.9	1556.8	755.2
82.5°	274.0	306.1	507.4	508.6	434.8	559.8	1413.9	1479.4	1043.5	627.7	308.5
85°	198.9	225.1	327.6	296.6	208.5	240.6	491.9	515.8	421.7	264.4	100.1
87.5°	70.3	100.1	179.9	142.9	57.2	50.0	141.7	115.5	107.2	73.9	22.6
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°	3934.4	3934.4	3934.4	3934.4	3934.4	3934.4	3934.4	3934.4	3934.4	3934.4	3934.4
2.5°	3955.8	3958.2	3946.3	3924.9	3903.4	3876.0	3845.1	3821.2	3810.5	3809.3	3808.1
5°	3998.7	4004.7	3959.4	3892.7	3818.9	3728.3	3650.9	3562.8	3540.1	3504.4	3515.1
7.5°	4067.8	4064.2	3974.9	3833.2	3660.4	3468.7	3306.7	3212.6	3114.9	3087.5	3088.7
10°	4166.7	4144.0	3974.9	3711.7	3423.4	3138.7	2912.4	2769.4	2692.0	2627.7	2603.9
12.5°	4271.5	4214.3	3936.8	3541.3	3118.5	2769.4	2526.5	2333.5	2283.5	2231.0	2232.2
15°	4371.6	4276.3	3861.7	3301.9	2789.7	2375.2	2139.3	2023.8	2008.3	2014.3	2013.1
17.5°	4462.1	4320.3	3747.4	3035.1	2406.1	2036.9	1911.8	1920.2	1961.8	1991.6	1995.2
20°	4553.8	4346.5	3577.1	2677.7	2044.0	1832.0	1836.8	1902.3	1965.4	2005.9	2011.9
22.5°	4640.8	4358.5	3376.9	2332.3	1782.0	1745.1	1815.3	1885.6	1947.5	1986.9	1992.8
25°	4697.9	4331.1	3093.4	1971.4	1653.3	1714.1	1787.9	1847.5	1899.9	1940.4	1949.9
27.5°	4713.4	4242.9	2742.1	1679.5	1593.8	1684.3	1752.2	1796.3	1836.8	1874.9	1882.0
30°	4705.1	4113.1	2356.1	1508.0	1559.2	1649.8	1702.2	1734.3	1783.2	1812.9	1818.9
32.5°	4692.0	3961.8	1953.5	1416.3	1530.6	1617.6	1648.6	1677.2	1676.0	1664.1	1672.4
35°	4696.7	3780.7	1627.1	1361.5	1505.6	1593.8	1620.0	1584.2	1481.8	1477.0	1472.3
37.5°	4721.8	3602.1	1390.1	1323.4	1492.5	1590.2	1604.5	1440.1	1349.6	1307.9	1297.2
40°	4786.1	3393.6	1234.0	1294.8	1491.3	1617.6	1534.2	1367.5	1193.5	1112.5	1106.6
42.5°	4871.8	3188.7	1138.7	1276.9	1505.6	1659.3	1505.6	1265.0	1075.6	1028.0	1020.8
45°	4999.3	2954.1	1086.3	1268.6	1527.1	1674.8	1496.1	1190.0	1028.0	989.9	989.9
47.5°	5143.4	2730.1	1057.8	1262.6	1554.5	1664.1	1411.5	1166.1	1005.3	1010.1	1032.7
50°	5286.4	2536.0	1036.3	1249.5	1578.3	1658.1	1377.0	1165.0	1011.3	1072.0	1112.5
52.5°	5451.9	2399.0	1010.1	1228.1	1578.3	1620.0	1366.3	1188.8	1028.0	1045.8	1063.7
55°	5652.1	2356.1	976.8	1181.6	1549.7	1524.7	1360.3	1223.3	1039.9	998.2	1005.3
57.5°	5916.5	2425.2	944.6	1123.3	1484.2	1425.8	1357.9	1232.9	1012.5	977.9	970.8
60°	6223.8	2562.2	935.1	1063.7	1394.8	1341.2	1343.6	1205.5	974.4	938.6	944.6
62.5°	6439.4	2644.4	929.1	1018.4	1297.2	1248.3	1309.1	1172.1	957.7	926.7	932.7
65°	6439.4	2544.3	874.3	949.4	1170.9	1136.4	1267.4	1130.4	936.3	900.5	894.6
67.5°	6195.2	2252.5	790.9	845.7	1031.5	1008.9	1209.0	1080.4	904.1	876.7	862.4
70°	5559.1	1708.1	686.1	724.2	855.3	875.5	1134.0	1012.5	850.5	817.1	795.7
71°	5279.2	1487.8	642.0	662.3	787.4	817.1	1098.3	983.9	826.7	779.0	740.9
72.5°	4739.6	1253.1	575.3	583.7	673.0	726.6	1023.2	929.1	781.4	713.5	670.6
75°	3600.9	914.8	463.4	458.6	497.9	576.5	866.0	827.9	684.9	593.2	568.2
77.5°	1555.7	497.9	346.6	350.2	338.3	437.2	681.3	711.1	587.2	482.4	459.8
80°	471.7	287.1	237.0	241.8	226.3	293.0	480.0	557.5	471.7	375.2	344.2
82.5°	241.8	171.5	162.0	159.6	144.1	165.6	290.6	381.2	337.1	234.7	207.3
85°	104.8	91.7	79.8	77.4	67.9	59.6	103.6	190.6	178.7	131.0	125.1
87.5°	26.2	23.8	15.5	14.3	8.3	1.2	0.0	0.0	0.0	0.0	0.0
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)