

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: P194033

Luminaire Tested: **GLEON-AF-05-LED-E1-T3R-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194033
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-T3R-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24821 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

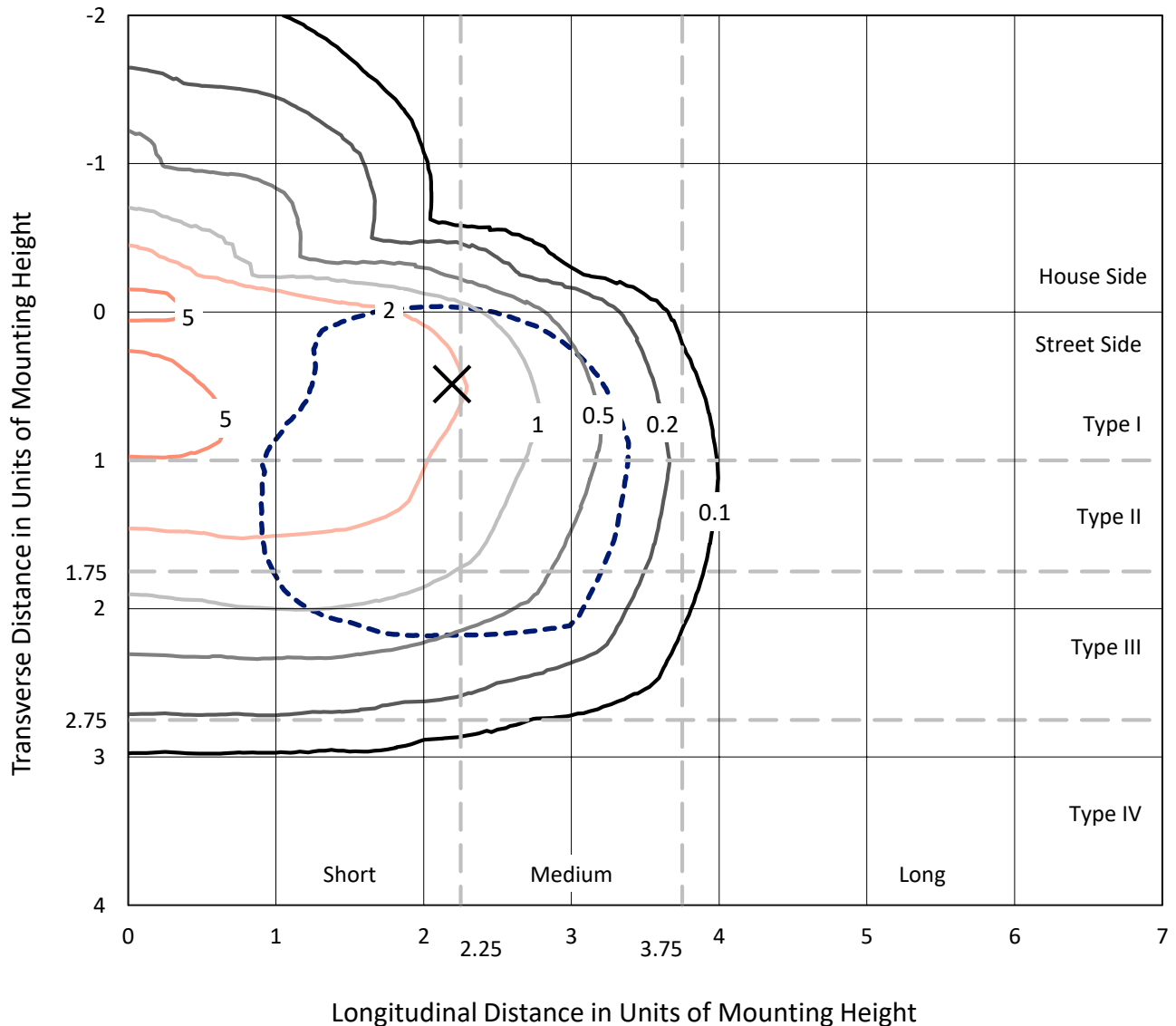
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

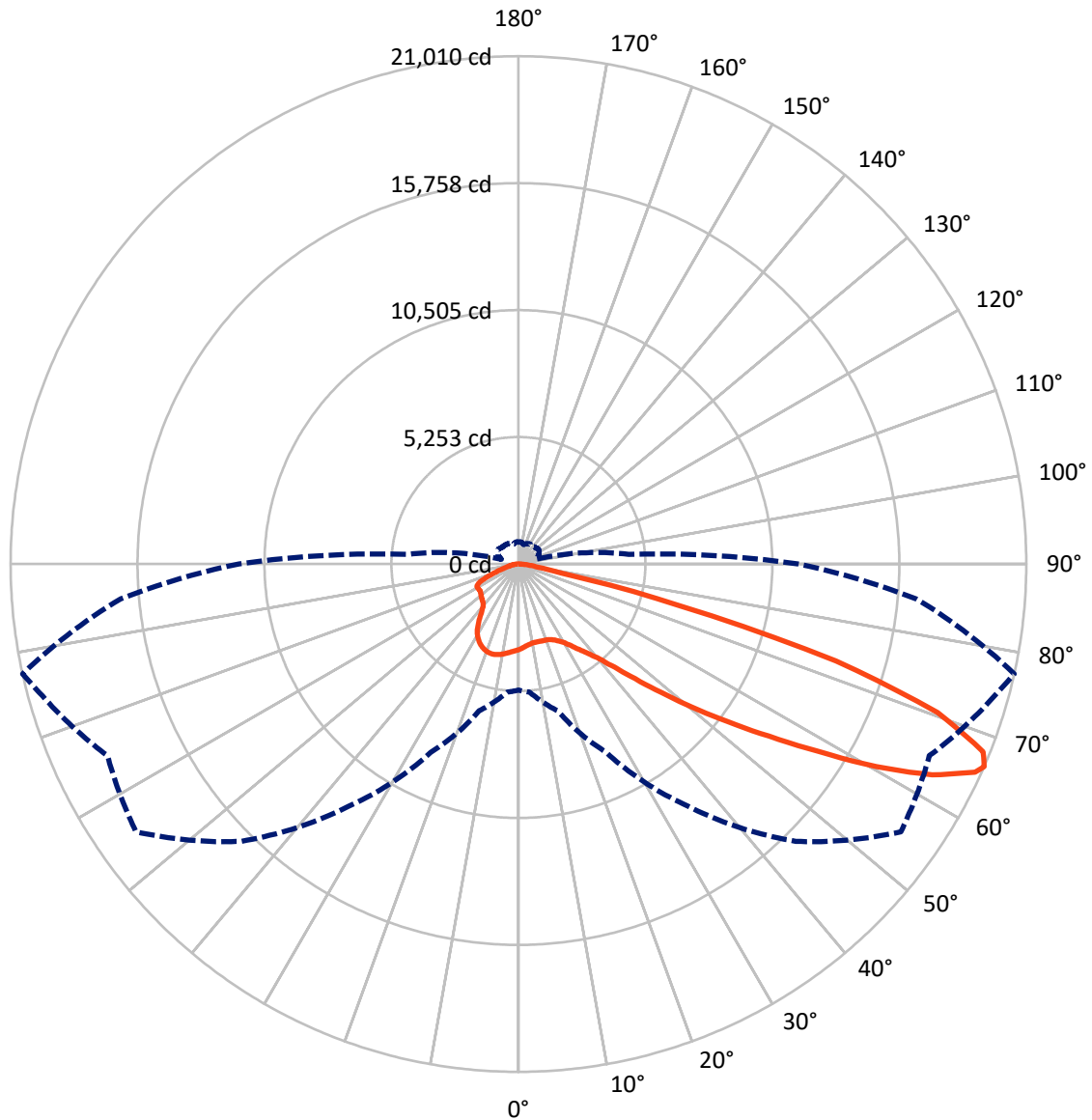
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4240.5	0.0	4240.5
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	20580.5	0.0	20580.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	24821.0	0.0	24821.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.0	1.3
10°-20°	891.5	3.6
20°-30°	1521.5	6.1
30°-40°	2435.7	9.8
40°-50°	3762.9	15.2
50°-60°	5337.1	21.5
60°-70°	7139.6	28.8
70°-80°	3100.6	12.5
80°-90°	316.2	1.3
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°	24821.0	100.0
0°-180°	24821.0	100.0



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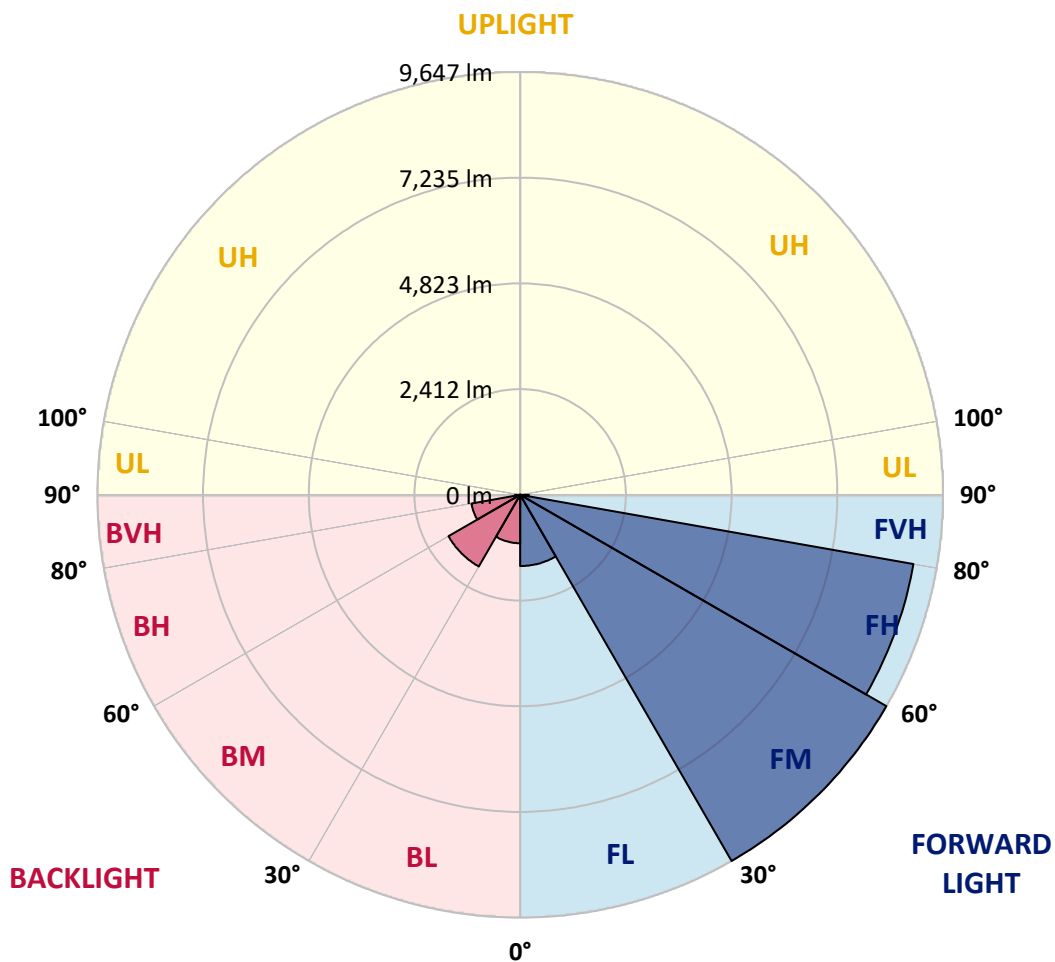
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1624.6	6.5			
FM	(30°-60°)	9646.7	38.9			
FH	(60°-80°)	9110.8	36.7			G4/12000
FVH	(80°-90°)	198.3	0.8			G2/225
BL	(0°-30°)	1104.4	4.4	B3/2500		
BM	(30°-60°)	1888.9	7.6	B2/2500		
BH	(60°-80°)	1129.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	117.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	3537.1	3537.1	3537.1	3537.1	3537.1	3537.1	3537.1	3537.1	3537.1	3537.1	3537.1
2.5°	3129.0	3150.1	3167.7	3184.1	3216.9	3270.9	3333.0	3383.5	3456.2	3470.3	3509.0
5°	2841.7	2841.7	2855.7	2880.4	2924.9	3005.8	3090.3	3202.9	3361.2	3398.7	3501.9
7.5°	2702.1	2703.3	2711.5	2732.6	2771.3	2845.2	2937.8	3070.3	3285.0	3347.1	3523.0
10°	2753.7	2742.0	2724.4	2713.8	2719.7	2763.1	2851.0	2998.8	3238.1	3317.8	3569.9
12.5°	3042.2	3019.9	2958.9	2878.0	2800.6	2768.9	2820.5	2964.8	3218.1	3310.8	3632.1
15°	3513.7	3504.3	3390.5	3222.8	3035.2	2878.0	2842.8	2951.9	3220.5	3319.0	3706.0
17.5°	4104.7	4091.8	3941.7	3697.8	3391.7	3085.6	2921.4	2962.4	3228.7	3333.0	3777.5
20°	4701.7	4661.8	4500.0	4209.1	3816.2	3368.2	3051.6	2989.4	3239.2	3348.3	3852.6
22.5°	5147.3	5114.5	4969.1	4686.4	4233.7	3695.4	3226.3	3036.3	3273.2	3392.9	3945.2
25°	5539.0	5541.4	5397.1	5123.9	4655.9	4042.6	3451.5	3161.8	3360.0	3484.3	4071.9
27.5°	6023.4	5995.3	5860.4	5589.5	5073.5	4393.2	3723.6	3334.2	3489.0	3614.5	4238.4
30°	6602.8	6582.8	6426.8	6119.6	5536.7	4769.7	4034.4	3534.8	3655.6	3785.7	4456.6
32.5°	7284.1	7274.8	7112.9	6717.7	6071.5	5213.0	4399.1	3799.8	3904.2	4039.1	4769.7
35°	8084.0	8085.2	7894.0	7419.0	6656.7	5729.0	4813.1	4141.1	4206.8	4347.5	5142.6
37.5°	8576.6	8636.4	8564.8	8080.5	7319.3	6306.0	5350.2	4593.8	4551.6	4693.5	5542.6
40°	8682.1	8754.8	8981.2	8734.9	8060.5	6941.7	5826.4	5028.9	4976.1	5149.7	6057.4
42.5°	8534.3	8635.2	9113.7	9287.3	8847.5	7725.1	6466.7	5675.1	5608.2	5841.6	6697.8
45°	8446.4	8521.4	9075.0	9574.6	9530.0	8610.6	7281.8	6486.7	6462.0	6768.1	7436.6
47.5°	8293.9	8361.9	8894.4	9641.4	9931.1	9422.1	8261.1	7478.8	7526.9	7928.0	8270.5
50°	8376.0	8404.2	8692.7	9471.4	10047.2	10016.7	9355.3	8628.2	8792.3	9293.1	9214.5
52.5°	8364.3	8437.0	8669.2	9192.3	10062.5	10383.8	10433.1	9910.0	10256.0	10830.6	10261.8
55°	6762.3	6896.0	8393.6	9121.9	10116.4	10743.9	11392.4	11261.1	11906.1	12575.7	11444.0
57.5°	6457.3	6541.8	7372.1	9269.7	10402.6	11431.1	12459.6	12748.1	13827.1	14604.7	12884.2
60°	6397.5	6501.9	7361.6	9450.3	10983.1	12551.1	14041.7	14548.4	16164.5	17015.9	14554.2
62.5°	6211.1	6323.6	7292.4	9426.8	11807.6	14100.4	16067.1	16462.3	18381.0	19209.0	15951.0
65°	5620.0	5725.5	6728.3	9048.0	12363.5	15754.0	18464.3	18216.8	20130.8	20753.6	16647.6
66°	5215.4	5318.6	6283.8	8602.4	12234.5	16223.1	19313.4	18759.8	20522.5	21010.4	16511.6
67.5°	4475.3	4556.3	5420.6	7604.3	11548.4	16354.4	20027.6	19167.9	20563.6	20736.0	15734.0
70°	2827.6	2851.0	3523.0	5249.4	8741.9	14183.6	18940.4	18154.7	18867.7	18400.9	13190.3
72.5°	1226.7	1218.5	1691.2	2670.4	4949.1	9517.1	15321.2	14979.9	14800.5	13735.6	9233.3
75°	682.6	691.9	878.4	1239.6	2011.3	4674.7	10022.6	9591.0	8098.1	6910.0	4186.8
77.5°	547.7	560.6	728.3	879.6	903.0	1630.2	4690.0	3816.2	2297.5	1843.6	1163.4
80°	432.8	456.2	635.6	684.9	608.7	672.0	1515.2	1211.5	908.9	833.8	602.8
82.5°	342.5	358.9	545.3	518.4	425.7	452.7	726.0	707.2	591.1	538.3	348.3
85°	246.3	276.8	448.0	390.5	279.1	304.9	482.0	462.1	338.9	276.8	153.6
87.5°	100.9	131.4	316.7	259.2	156.0	141.9	240.4	226.3	160.7	117.3	76.2
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°	3537.1	3537.1	3537.1	3537.1	3537.1	3537.1	3537.1	3537.1	3537.1	3537.1	3537.1
2.5°	3533.6	3561.7	3598.1	3620.4	3632.1	3640.3	3653.2	3652.0	3655.6	3656.7	3661.4
5°	3557.0	3604.0	3656.7	3670.8	3670.8	3657.9	3645.0	3623.9	3615.7	3613.3	3615.7
7.5°	3618.0	3669.6	3715.4	3699.0	3663.8	3612.2	3545.3	3486.7	3455.0	3444.5	3442.1
10°	3695.4	3757.6	3776.4	3714.2	3611.0	3486.7	3354.2	3258.0	3202.9	3187.6	3182.9
12.5°	3789.3	3847.9	3822.1	3690.7	3499.6	3299.0	3116.1	2962.4	2847.5	2811.2	2808.8
15°	3892.5	3938.2	3847.9	3618.0	3333.0	3037.5	2711.5	2446.4	2303.3	2257.6	2254.1
17.5°	3988.6	4012.1	3832.7	3491.4	3087.9	2609.4	2176.7	1972.6	1923.4	1935.1	1937.4
20°	4070.7	4070.7	3781.0	3309.6	2702.1	2045.3	1772.1	1768.6	1803.7	1838.9	1846.0
22.5°	4161.0	4107.1	3690.7	3052.8	2155.6	1673.6	1633.7	1666.5	1706.4	1745.1	1751.0
25°	4272.4	4136.4	3565.3	2663.4	1694.7	1519.9	1535.2	1562.1	1582.1	1606.7	1610.2
27.5°	4396.8	4173.9	3399.9	2127.4	1470.7	1423.8	1435.5	1444.9	1442.5	1451.9	1454.2
30°	4545.7	4217.3	3173.5	1663.0	1378.0	1341.7	1320.6	1312.3	1312.3	1327.6	1333.5
32.5°	4745.1	4281.8	2848.7	1424.9	1333.5	1283.0	1215.0	1184.5	1196.2	1247.8	1259.6
35°	4964.4	4351.0	2408.9	1344.0	1324.1	1256.0	1150.5	1094.2	1095.4	1143.5	1158.7
37.5°	5203.6	4439.0	1926.9	1328.8	1345.2	1257.2	1116.5	1039.1	1007.4	1007.4	1013.3
40°	5509.7	4529.3	1559.8	1339.3	1389.7	1271.3	1098.9	995.7	906.6	908.9	913.6
42.5°	5908.5	4606.7	1362.8	1361.6	1443.7	1290.1	1097.7	938.2	860.8	913.6	961.7
45°	6351.8	4645.4	1276.0	1381.5	1487.1	1301.8	1079.0	928.8	866.7	1023.8	1115.3
47.5°	6861.9	4623.1	1227.9	1388.6	1497.6	1301.8	1057.8	951.1	907.7	1185.7	1292.4
50°	7421.4	4558.6	1181.0	1374.5	1494.1	1299.4	1077.8	973.4	923.0	1213.8	1287.7
52.5°	8079.3	4504.7	1131.7	1344.0	1469.5	1286.5	1101.2	964.0	874.9	1103.6	1155.2
55°	8829.9	4519.9	1076.6	1300.6	1430.8	1261.9	1093.0	926.5	824.5	972.2	1003.9
57.5°	9789.2	4701.7	1010.9	1245.5	1378.0	1220.9	1063.7	908.9	809.2	881.9	900.7
60°	10860.0	5018.3	928.8	1190.4	1312.3	1155.2	1041.4	917.1	816.3	874.9	884.3
62.5°	11645.7	5202.5	858.5	1109.5	1223.2	1082.5	1013.3	927.7	835.0	899.5	897.2
65°	11859.2	4899.9	770.5	991.0	1102.4	1006.2	978.1	939.4	843.2	919.5	908.9
66°	11560.1	4573.8	731.8	935.9	1041.4	968.7	960.5	938.2	839.7	921.8	904.2
67.5°	10834.2	3905.4	665.0	855.0	944.1	912.4	932.4	927.7	830.3	919.5	894.8
70°	8835.7	2664.6	568.8	711.9	785.8	803.4	878.4	890.1	799.8	878.4	824.5
72.5°	6173.5	1623.1	503.1	552.4	635.6	684.9	804.5	838.5	758.8	767.0	715.4
75°	2983.6	862.0	456.2	428.1	493.7	572.3	715.4	768.2	694.3	641.5	622.7
77.5°	930.0	526.6	387.0	344.8	387.0	462.1	598.1	673.2	618.1	537.1	530.1
80°	499.6	387.0	297.9	276.8	306.1	362.4	470.3	561.8	531.3	482.0	430.4
82.5°	329.6	251.0	220.5	214.6	233.4	276.8	349.5	465.6	465.6	412.8	300.2
85°	170.1	153.6	151.3	151.3	163.0	184.1	238.1	358.9	382.3	218.1	180.6
87.5°	84.4	88.0	82.1	85.6	91.5	90.3	113.8	180.6	215.8	132.5	110.2
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)