

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: P383315

Luminaire Tested: **GLEON-SA6B-735-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383315
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6B-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31246 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

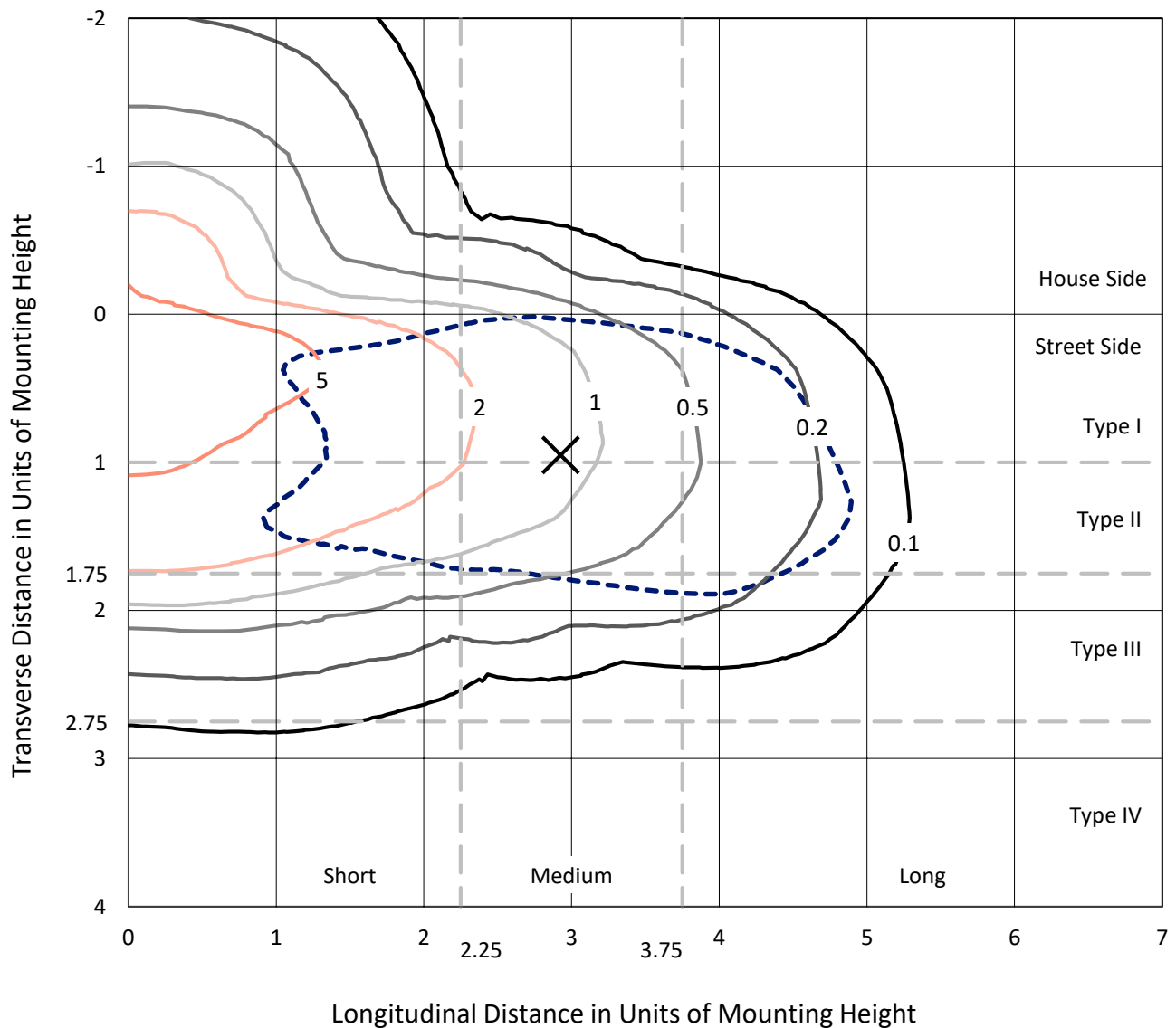
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

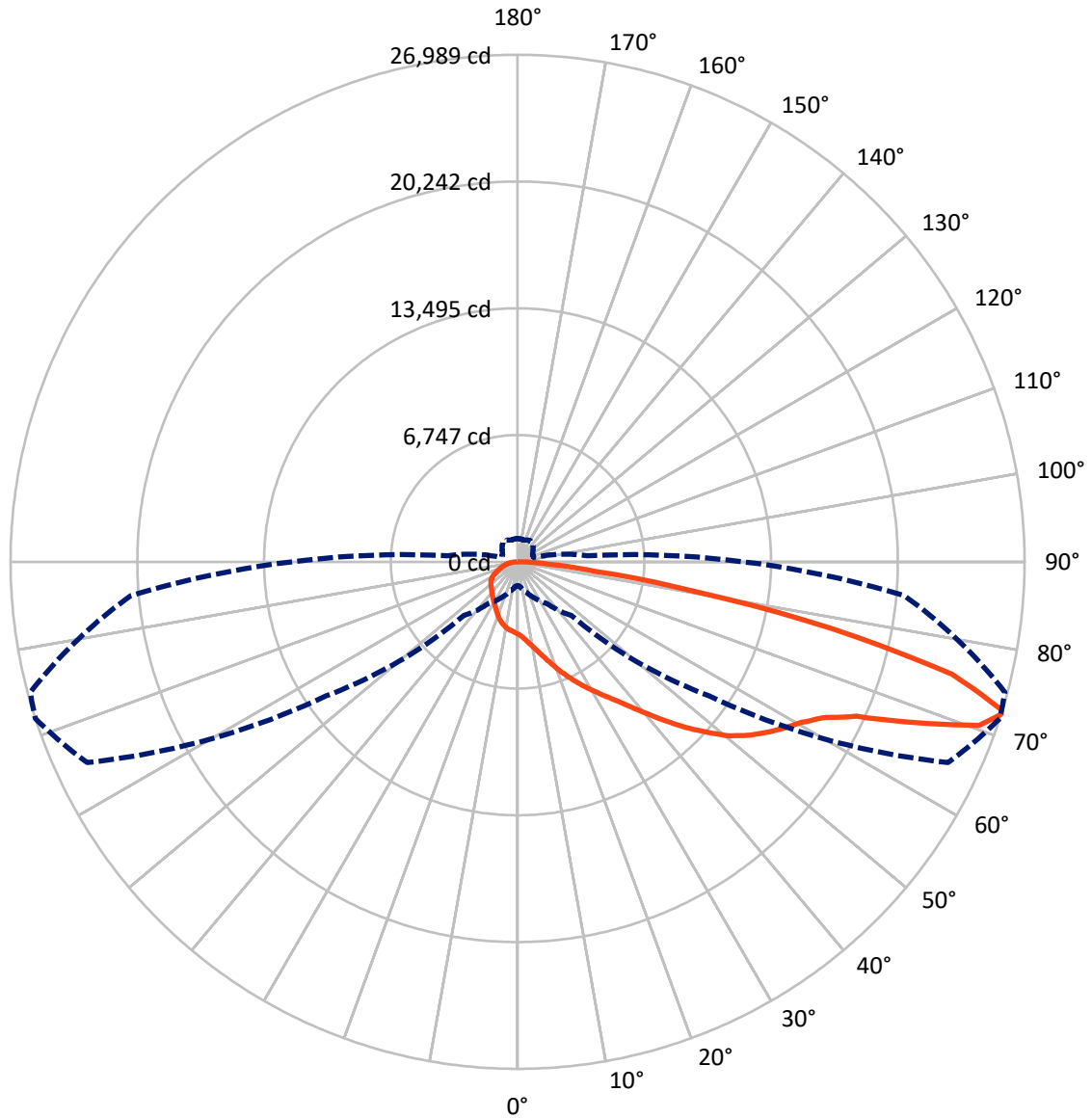
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5796.3	0.0	5796.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	25449.6	0.0	25449.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	31246.0	0.0	31246.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.2	1.2
10°-20°	1244.7	4.0
20°-30°	2181.2	7.0
30°-40°	3234.0	10.4
40°-50°	4730.0	15.1
50°-60°	6508.4	20.8
60°-70°	7245.8	23.2
70°-80°	4909.7	15.7
80°-90°	807.0	2.6
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°	31246.0	100.0
0°-180°	31246.0	100.0

Coefficient of Utilization

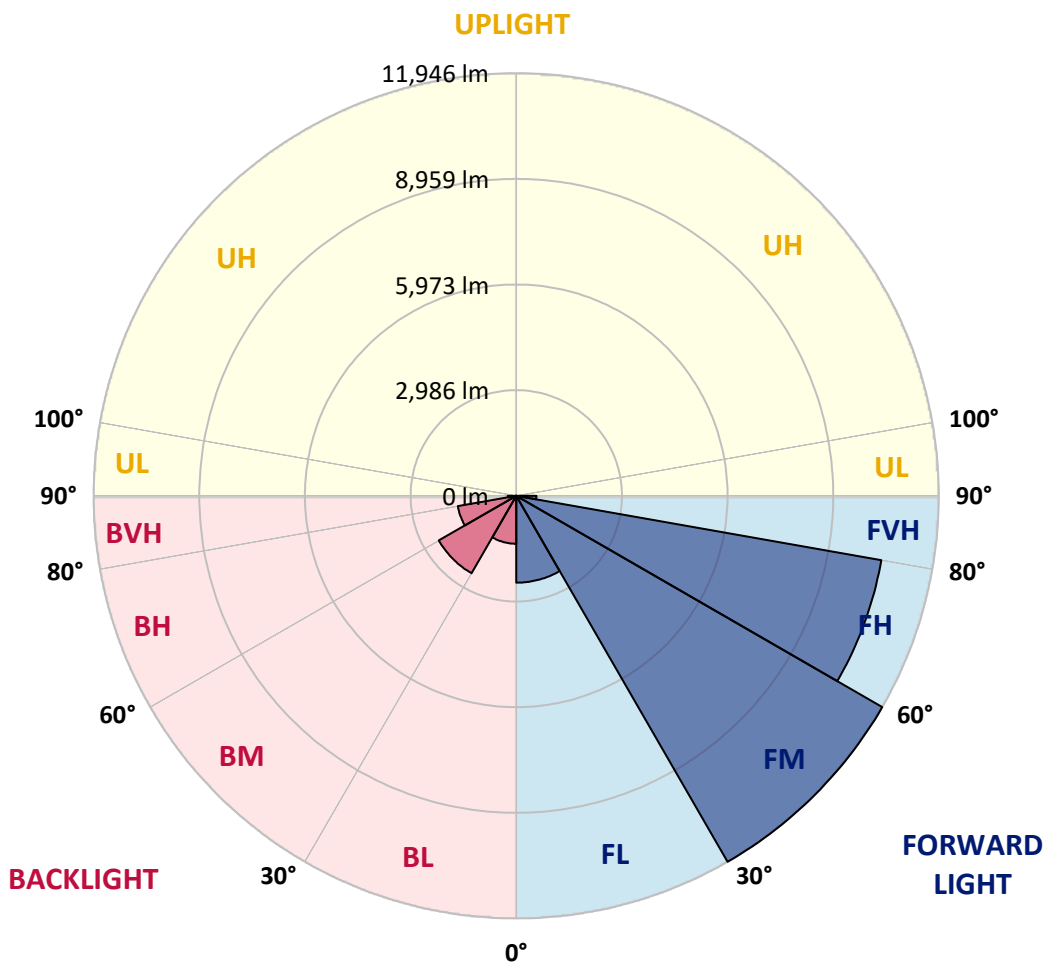


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2456.1	7.9			
FM (30°-60°)	11945.7	38.2			
FH (60°-80°)	10478.6	33.5			G4/12000
FVH (80°-90°)	569.2	1.8			G4/750
BL (0°-30°)	1355.0	4.3	B3/2500		
BM (30°-60°)	2526.7	8.1	B3/5000		
BH (60°-80°)	1677.0	5.4	B3/2500		G3/2500
BVH (80°-90°)	237.7	0.8			G3/500
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3844.0	3844.0	3844.0	3844.0	3844.0	3844.0	3844.0	3844.0	3844.0	3844.0	3844.0
2.5°	4246.5	4240.0	4217.4	4217.4	4174.4	4137.7	4068.9	4022.7	3967.8	3948.5	3883.9
5°	4657.5	4659.6	4631.6	4612.3	4548.7	4471.3	4354.1	4247.5	4141.0	4098.0	3965.6
7.5°	5002.8	4998.5	4991.0	4974.8	4915.6	4836.0	4677.9	4519.7	4362.6	4298.1	4070.0
10°	5224.4	5234.1	5240.5	5248.1	5223.4	5166.3	5016.8	4824.2	4618.7	4530.5	4194.8
12.5°	5336.3	5353.5	5383.6	5435.3	5476.2	5469.7	5361.1	5156.6	4912.4	4801.6	4350.8
15°	5402.0	5424.5	5471.8	5564.4	5679.5	5745.1	5716.1	5531.1	5258.9	5122.2	4541.2
17.5°	5442.8	5461.1	5534.2	5657.9	5829.1	6003.4	6079.7	5924.8	5650.5	5494.5	4759.6
20°	5470.8	5484.8	5576.2	5721.5	5943.1	6220.7	6433.6	6395.0	6081.9	5879.6	4987.7
22.5°	5533.2	5545.0	5632.1	5778.5	6023.8	6382.0	6774.8	6832.8	6536.9	6307.8	5231.9
25°	5707.5	5707.5	5780.6	5882.8	6113.1	6521.9	7063.1	7320.2	7001.7	6734.9	5457.8
27.5°	6039.9	6036.7	6063.5	6099.1	6273.4	6663.9	7320.2	7750.6	7483.7	7192.2	5677.3
30°	6433.6	6455.2	6458.4	6441.2	6523.0	6841.5	7557.9	8204.5	7968.9	7654.8	5902.2
32.5°	6940.4	6954.4	6938.3	6881.2	6869.4	7093.2	7791.5	8680.1	8493.9	8137.8	6107.7
35°	7583.8	7556.9	7506.3	7390.2	7279.3	7429.9	8058.3	9155.6	9083.5	8722.1	6390.6
37.5°	8273.4	8274.5	8212.1	7948.5	7795.7	7860.3	8426.2	9694.6	9796.8	9417.0	6753.3
40°	8826.4	8855.5	8894.2	8547.8	8349.8	8439.1	8894.2	10319.7	10640.3	10241.2	7225.5
42.5°	9212.6	9246.0	9355.7	9138.4	8932.9	9098.6	9445.1	10986.8	11587.1	11192.3	7778.5
45°	9621.5	9639.7	9717.3	9623.6	9492.4	9865.6	10065.8	11677.4	12588.7	12205.7	8397.2
47.5°	10051.8	10071.1	10150.8	10088.4	10019.5	10582.2	10713.4	12328.4	13548.3	13319.3	9057.7
50°	10583.3	10596.2	10671.5	10558.5	10580.1	11122.3	11292.3	12925.4	14554.3	14319.7	9720.4
52.5°	11308.4	11311.7	11416.0	11313.8	11212.7	11518.2	11790.4	13488.2	15343.0	15232.1	10383.2
55°	11876.5	11911.0	12253.0	12231.5	12173.5	11877.6	12206.8	14023.9	16046.6	16099.3	11086.8
57.5°	11513.9	11648.4	12341.2	12829.7	13305.2	12771.6	12769.5	14627.4	16700.7	16950.3	11860.4
60°	10084.1	10267.0	11288.0	12371.4	13859.3	14327.3	13937.8	15364.5	17361.3	17793.8	12829.7
62.5°	7201.9	7503.1	8886.7	10616.7	13099.7	15358.0	16315.5	16533.9	18259.6	18770.6	14089.6
65°	3640.8	3868.8	5028.6	7112.6	10466.0	14684.5	18899.7	19094.5	19820.7	20274.7	16029.3
67.5°	2212.0	2298.0	2863.9	3956.0	6416.5	11438.6	19743.2	23362.5	22841.7	23082.7	18795.4
70°	1629.9	1693.4	2046.3	2627.2	3690.2	6712.4	17154.7	26408.2	26066.1	26039.2	20839.6
72°	1269.5	1315.8	1627.8	2122.7	2698.2	4027.0	12433.7	25284.0	26989.2	26853.6	20652.3
72.5°	1203.9	1244.7	1528.8	1997.9	2549.8	3650.5	11179.3	24525.4	26922.5	26861.2	20410.3
75°	947.8	976.9	1131.8	1545.0	1995.7	2071.0	6126.0	19006.3	23883.1	24876.1	18357.5
77.5°	784.3	788.6	870.3	1124.3	1555.7	1464.3	3009.2	13186.9	17102.0	18194.0	13004.0
80°	639.0	644.4	683.2	788.6	1177.0	1083.4	1428.7	7582.7	9575.2	9587.0	6184.1
82.5°	508.9	509.9	553.0	576.6	845.7	774.6	818.7	3560.0	4184.0	4024.8	2222.8
85°	358.3	350.7	540.1	473.4	553.0	497.1	451.9	1409.3	1730.0	1654.7	696.1
87.5°	119.4	123.7	239.9	306.7	322.8	281.9	201.2	540.1	653.0	647.7	220.6
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°	3844.0	3844.0	3844.0	3844.0	3844.0	3844.0	3844.0	3844.0	3844.0	3844.0	3844.0
2.5°	3863.4	3829.0	3778.5	3722.5	3678.4	3633.2	3599.9	3582.6	3563.3	3547.1	3566.5
5°	3904.3	3839.7	3732.2	3626.7	3549.3	3480.4	3431.0	3405.1	3381.4	3365.3	3367.5
7.5°	3971.0	3866.7	3685.9	3532.1	3424.5	3350.2	3299.6	3282.5	3267.4	3263.1	3268.5
10°	4042.0	3888.2	3624.6	3420.2	3297.5	3236.2	3213.7	3225.5	3236.2	3245.9	3256.7
12.5°	4122.8	3907.6	3535.3	3288.9	3184.6	3160.9	3183.5	3235.2	3272.8	3295.3	3309.3
15°	4228.1	3924.8	3432.0	3157.7	3087.7	3114.6	3191.0	3280.4	3345.9	3387.9	3394.4
17.5°	4325.0	3923.7	3299.6	3025.3	3009.2	3087.7	3202.8	3328.7	3416.9	3476.2	3488.0
20°	4425.0	3894.6	3145.8	2896.3	2929.6	3058.6	3208.2	3359.9	3466.5	3535.3	3551.4
22.5°	4518.7	3844.0	2976.9	2779.0	2862.9	3020.0	3187.8	3341.6	3448.1	3504.1	3521.3
25°	4582.1	3755.8	2805.8	2680.0	2803.7	2972.7	3121.1	3244.8	3324.4	3352.4	3356.7
27.5°	4614.4	3640.8	2644.5	2593.9	2742.4	2895.2	2997.3	3058.6	3081.3	3079.1	3074.9
30°	4618.7	3489.0	2505.7	2524.0	2671.4	2781.1	2829.5	2817.7	2788.7	2739.1	2743.5
32.5°	4604.7	3318.0	2389.5	2457.2	2581.0	2642.3	2644.5	2587.5	2510.0	2431.4	2409.9
35°	4609.0	3150.1	2287.3	2382.0	2471.3	2498.1	2473.4	2389.5	2284.1	2182.9	2161.4
37.5°	4656.3	3003.8	2199.1	2294.9	2349.7	2356.2	2320.7	2232.5	2154.9	2056.0	2047.4
40°	4769.3	2899.4	2115.2	2197.0	2228.1	2231.3	2180.8	2118.3	2124.9	2072.1	2071.0
42.5°	4972.7	2854.3	2040.9	2094.7	2114.1	2120.6	2081.8	2042.0	2097.9	2063.5	2051.6
45°	5235.2	2865.1	1978.5	1994.6	2030.1	2060.3	2036.6	1988.2	2009.7	1860.2	1810.6
47.5°	5538.5	2933.9	1929.0	1908.6	1969.9	2027.0	1990.3	1917.2	1840.8	1692.3	1664.4
50°	5893.6	3040.4	1883.9	1823.6	1904.3	1981.8	1945.2	1840.8	1725.7	1653.6	1643.9
52.5°	6263.7	3170.6	1838.7	1730.0	1821.5	1947.3	1929.0	1823.6	1681.5	1610.6	1597.7
55°	6683.3	3301.9	1781.7	1621.4	1732.1	1931.2	1921.5	1761.2	1648.2	1608.4	1598.7
57.5°	7205.1	3451.4	1706.3	1508.4	1648.2	1873.1	1843.0	1723.5	1613.8	1583.6	1580.5
60°	7885.0	3672.0	1597.7	1387.9	1546.0	1783.8	1777.3	1668.7	1558.9	1537.4	1533.1
62.5°	8904.9	4036.7	1448.1	1267.4	1432.0	1632.1	1691.2	1594.4	1500.8	1499.8	1501.9
65°	10486.4	4585.4	1285.6	1161.9	1316.8	1504.1	1591.2	1518.0	1441.7	1463.2	1466.4
67.5°	12319.7	5040.4	1126.4	1058.6	1199.6	1382.5	1500.8	1441.7	1363.1	1419.0	1420.1
70°	12929.8	4633.8	986.6	956.4	1078.0	1265.2	1402.9	1357.7	1278.1	1334.1	1328.7
72°	12032.5	3740.8	896.2	879.0	986.6	1168.3	1315.8	1279.2	1200.7	1238.3	1224.3
72.5°	11749.5	3566.5	873.6	859.6	961.8	1143.7	1293.2	1259.8	1181.3	1213.6	1200.7
75°	10481.1	3097.4	750.9	754.2	839.1	1023.1	1166.2	1155.5	1074.8	1078.0	1073.7
77.5°	7602.1	2271.1	632.6	654.1	714.4	899.4	1038.2	1031.8	943.6	927.4	924.2
80°	3527.8	1158.8	515.3	525.0	587.4	752.0	885.4	876.9	805.8	785.4	773.6
82.5°	1208.2	550.8	387.3	393.8	455.1	605.7	768.2	762.8	703.6	663.8	639.0
85°	431.4	274.3	271.1	264.7	324.9	476.6	669.2	640.2	553.0	471.3	469.0
87.5°	139.8	117.3	139.8	138.8	189.4	322.8	486.3	414.2	401.3	333.5	327.1
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)