

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: P382620

Luminaire Tested: **GLEON-SA0A-735-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0A-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33047.6 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

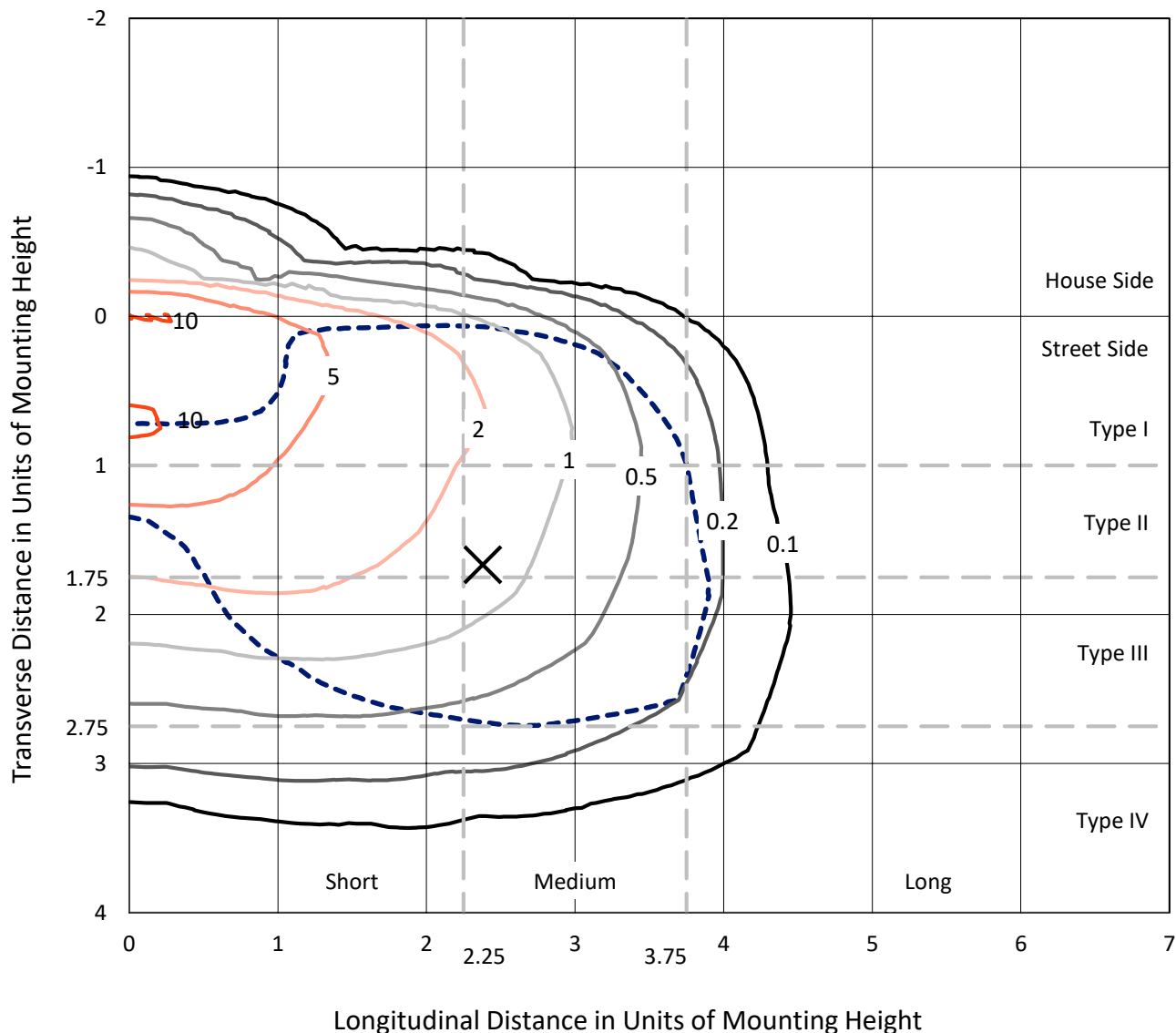
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

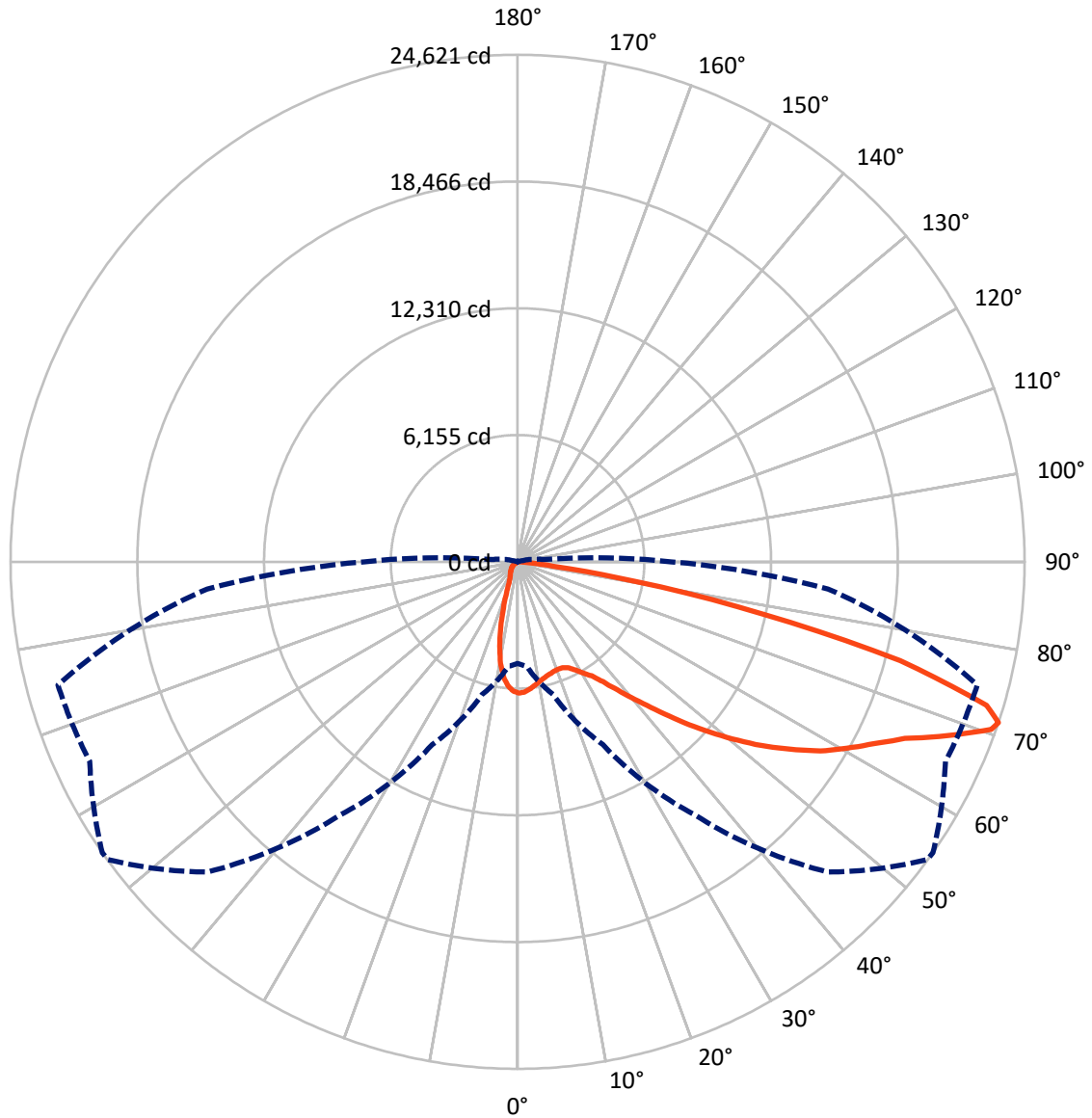
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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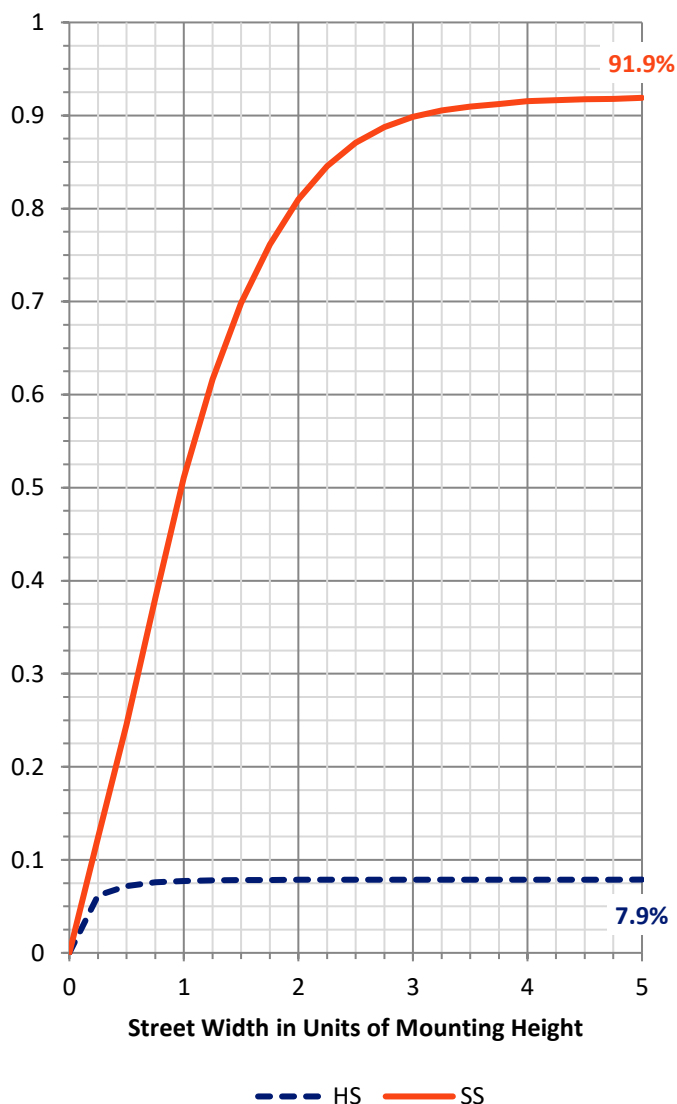
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2616.5	0.0	2616.5
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	30431.1	0.0	30431.1
	% Fixture	92.1	0.0	92.1
Total	Lumens	33047.6	0.0	33047.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.4	1.6
10°-20°	1226.8	3.7
20°-30°	1971.5	6.0
30°-40°	3349.7	10.1
40°-50°	5199.1	15.7
50°-60°	6990.1	21.2
60°-70°	8551.2	25.9
70°-80°	4999.7	15.1
80°-90°	216.1	0.7
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°	33047.6	100.0
0°-180°	33047.6	100.0

Coefficient of Utilization

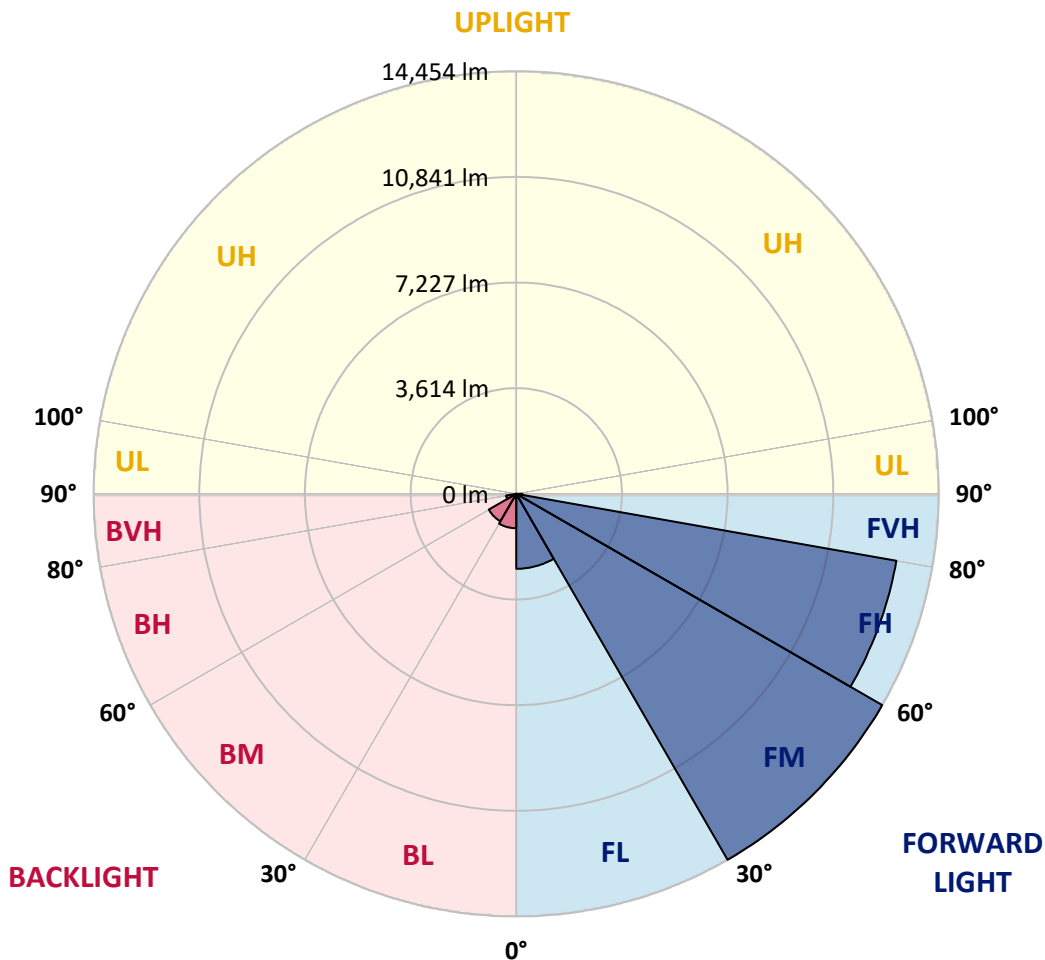


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2564.0	7.8			
FM (30°-60°)	14454.1	43.7			
FH (60°-80°)	13200.3	39.9			G5
FVH (80°-90°)	212.7	0.6			G2/225
BL (0°-30°)	1177.7	3.6	B3/2500		
BM (30°-60°)	1084.8	3.3	B2/2500		
BH (60°-80°)	350.5	1.1	B1/500		G1/500
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6373.4	6373.4	6373.4	6373.4	6373.4	6373.4	6373.4	6373.4	6373.4	6373.4	6373.4
2.5°	6186.4	6193.8	6220.5	6232.3	6260.6	6308.1	6331.8	6333.3	6371.9	6386.7	6398.6
5°	5748.6	5793.1	5837.6	5885.1	5971.2	6085.4	6198.2	6208.7	6333.3	6425.3	6474.3
7.5°	5371.7	5411.7	5465.2	5540.8	5662.6	5842.1	6030.6	6052.8	6288.8	6498.0	6607.8
10°	4984.4	5017.0	5094.3	5205.5	5373.2	5613.6	5867.4	5904.4	6248.7	6595.9	6788.8
12.5°	4570.5	4589.7	4683.2	4843.5	5089.8	5395.4	5729.3	5778.3	6223.5	6708.7	7002.5
15°	4255.8	4264.7	4353.8	4520.0	4801.9	5199.6	5622.4	5681.9	6229.4	6843.7	7235.5
17.5°	4175.7	4180.1	4227.6	4341.9	4591.2	5024.5	5537.9	5610.6	6247.2	6975.8	7470.0
20°	4500.7	4469.5	4420.6	4402.8	4509.5	4919.1	5487.5	5569.1	6271.0	7093.0	7680.7
22.5°	5392.4	5300.5	5097.1	4825.6	4660.9	4926.6	5500.8	5582.4	6346.6	7237.0	7924.0
25°	6716.1	6588.6	6242.8	5708.5	5195.1	5140.2	5612.1	5695.2	6493.5	7409.1	8157.0
27.5°	8222.3	8096.2	7673.3	6910.5	6035.0	5563.1	5867.4	5944.5	6711.7	7561.9	8335.0
30°	9664.6	9629.0	9130.5	8263.9	7091.6	6248.7	6196.7	6262.0	6873.4	7654.0	8476.1
32.5°	10887.4	10831.0	10430.4	9587.5	8300.9	7072.2	6584.1	6603.4	6995.1	7772.6	8660.0
35°	12021.1	11951.3	11599.6	10802.8	9541.5	8078.4	7180.6	7152.4	7260.8	8011.6	8927.1
37.5°	13010.8	13074.6	12684.3	11926.1	10654.4	9124.5	7984.9	7900.3	7676.2	8400.3	9314.5
40°	13838.9	13838.9	13635.5	13003.4	11856.4	10206.2	8894.5	8783.2	8300.9	8999.9	9805.6
42.5°	14137.1	14200.9	14276.6	13919.0	12932.2	11331.1	9908.0	9792.2	9180.9	9850.1	10425.9
45°	14154.9	14255.8	14643.1	14641.6	13904.1	12448.5	11050.6	10995.7	10308.6	10942.2	11194.5
47.5°	13904.1	14030.2	14668.3	15030.4	14674.3	13488.6	12300.1	12231.8	11633.7	12280.8	11998.8
50°	13516.8	13656.3	14398.3	15183.3	15198.1	14393.8	13616.2	13513.9	13092.4	13810.7	12829.8
52.5°	12823.9	13093.9	14156.4	15218.9	15542.3	15175.8	14868.7	14824.2	14724.7	15284.2	13491.6
55°	11341.4	11641.2	13549.5	15230.7	15861.4	15868.8	16042.5	16054.3	16254.7	16661.2	13984.3
57.5°	10641.1	10810.2	12490.0	15287.2	16334.8	16655.2	17238.5	17330.4	17640.6	17968.5	14546.7
60°	10200.4	10400.6	11967.7	15209.9	17078.2	17686.5	18346.9	18378.1	18710.5	19317.4	15307.9
62.5°	9848.6	10046.0	11638.2	14913.1	17913.7	18927.1	19430.1	19433.1	19682.4	20924.4	16173.0
65°	8980.6	9146.8	10972.0	14579.3	18465.6	20154.3	20688.6	20669.3	20872.5	22619.1	17177.6
67.5°	7725.1	7852.8	9611.2	13313.6	18257.9	21270.2	22587.9	22524.1	22277.8	24083.7	17572.3
70°	5972.7	6018.7	7575.3	11095.1	16311.0	21699.0	24423.5	24390.8	23139.9	23821.1	16125.6
71°	4936.9	5088.3	6676.0	9792.2	15006.7	21302.8	24601.5	24620.8	22923.2	23105.8	15129.8
72.5°	2866.9	2996.0	4839.0	7520.4	12740.8	19649.8	23678.5	23818.1	21911.2	21016.5	12923.3
75°	614.4	657.4	1794.1	3640.0	7008.5	13772.1	18689.7	19186.8	17858.7	14297.4	7788.9
77.5°	427.4	461.5	768.6	1651.5	2316.4	6805.1	11610.1	12170.9	10669.2	5373.2	2492.9
80°	338.3	376.9	599.5	816.1	626.2	2194.7	5438.5	5781.3	3558.4	1199.0	419.9
82.5°	188.5	224.0	467.5	440.7	240.4	417.0	1522.5	1721.3	712.3	241.8	99.4
85°	54.9	66.8	301.3	320.5	102.4	80.1	259.7	322.0	135.1	63.8	44.5
87.5°	0.0	0.0	145.4	123.2	29.7	11.8	23.8	26.7	26.7	26.7	29.7
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°	6373.4	6373.4	6373.4	6373.4	6373.4	6373.4	6373.4	6373.4	6373.4	6373.4	6373.4
2.5°	6398.6	6409.0	6371.9	6322.9	6271.0	6207.2	6140.4	6088.4	6086.9	6061.8	6036.5
5°	6477.2	6471.3	6368.9	6213.0	6029.1	5837.6	5655.1	5448.9	5380.6	5296.0	5267.8
7.5°	6622.7	6581.1	6364.4	6023.1	5619.6	5218.9	4804.8	4387.9	4209.8	4049.5	4021.4
10°	6805.1	6726.5	6336.3	5738.2	4997.8	4258.8	3634.1	3067.2	2817.9	2626.5	2617.6
12.5°	6995.1	6874.9	6257.6	5307.9	4183.1	3144.3	2424.7	1866.7	1659.0	1525.4	1537.3
15°	7194.0	7014.4	6088.4	4727.7	3255.7	2133.8	1489.8	1161.9	1078.8	1044.6	1053.6
17.5°	7397.2	7110.9	5852.5	4028.8	2340.1	1377.0	1031.3	939.3	939.3	946.7	949.7
20°	7573.9	7162.8	5505.3	3245.3	1586.3	1003.1	902.2	888.9	896.2	908.2	909.7
22.5°	7748.9	7165.7	5052.7	2451.4	1109.9	878.4	859.2	853.2	857.7	871.1	872.5
25°	7891.4	7130.2	4485.9	1743.6	885.9	828.1	819.1	816.1	819.1	835.4	835.4
27.5°	7949.3	7001.0	3794.3	1225.7	793.9	771.6	768.6	771.6	776.1	788.0	789.4
30°	7955.1	6775.5	3040.5	887.4	719.7	696.0	701.9	712.3	707.8	704.8	707.8
32.5°	7970.0	6514.3	2306.0	730.1	657.4	620.2	612.9	612.9	595.1	584.6	578.7
35°	8018.9	6207.2	1672.3	655.9	593.6	550.5	522.3	489.7	455.5	437.7	433.3
37.5°	8096.2	5885.1	1197.5	606.9	537.1	488.2	434.8	376.9	327.9	314.6	314.6
40°	8237.1	5552.8	885.9	568.3	492.7	431.8	351.7	276.0	231.5	224.0	224.0
42.5°	8459.7	5202.5	706.3	534.2	454.0	373.9	268.6	200.3	167.7	163.2	161.7
45°	8691.2	4816.8	617.3	501.5	412.5	307.1	198.9	148.4	129.1	124.6	124.6
47.5°	8922.6	4405.7	574.3	470.4	372.4	238.9	148.4	117.2	108.3	108.3	109.8
50°	9118.5	3976.9	543.1	436.2	320.5	181.0	117.2	99.4	96.4	102.4	103.9
52.5°	9167.5	3555.4	504.5	393.2	256.7	138.0	96.4	87.6	87.6	87.6	87.6
55°	9137.8	3228.9	454.0	339.8	189.9	109.8	83.1	77.1	75.6	75.6	75.6
57.5°	9238.7	3036.1	363.6	264.1	136.6	89.1	72.8	68.3	65.3	63.8	63.8
60°	9442.1	2910.0	259.7	189.9	102.4	74.2	62.3	57.8	53.4	50.5	50.5
62.5°	9712.1	2800.1	192.9	140.9	78.6	59.3	52.0	47.5	41.5	38.6	38.6
65°	9919.9	2604.2	146.9	105.4	59.3	47.5	40.1	38.6	29.7	26.7	25.2
67.5°	9602.3	2174.0	118.7	77.1	44.5	37.1	31.2	29.7	17.8	14.8	14.8
70°	8235.6	1513.6	94.9	56.4	32.6	29.7	25.2	19.3	13.3	11.8	11.8
71°	7468.5	1264.3	86.1	47.5	28.2	28.2	23.8	16.3	11.8	10.4	10.4
72.5°	6204.2	897.7	72.8	37.1	25.2	29.7	25.2	14.8	11.8	10.4	8.9
75°	3601.5	375.4	50.5	25.2	19.3	35.6	32.6	13.3	8.9	7.5	7.5
77.5°	1083.2	138.0	28.2	16.3	14.8	31.2	37.1	11.8	4.5	1.5	1.5
80°	197.4	59.3	17.8	10.4	10.4	19.3	28.2	6.0	0.0	0.0	0.0
82.5°	69.8	29.7	10.4	6.0	4.5	8.9	13.3	0.0	0.0	0.0	0.0
85°	40.1	20.8	6.0	3.0	0.0	1.5	3.0	0.0	0.0	0.0	0.0
87.5°	26.7	6.0	0.0	0.0	0.0	0.0	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)