

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: P383707

Luminaire Tested: **GLEON-SA9D-735-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383707
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-SA9D-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63412.3 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

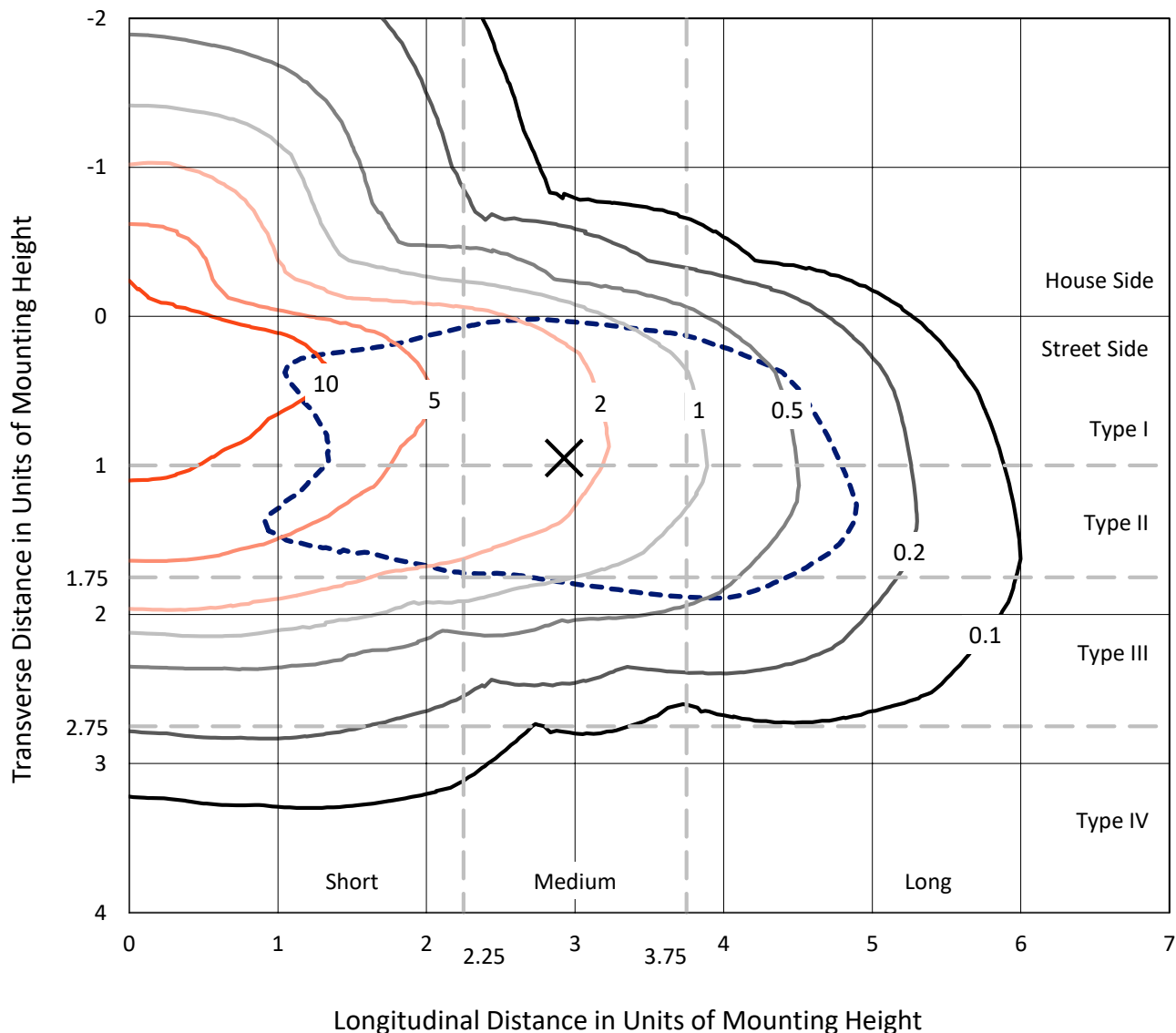
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

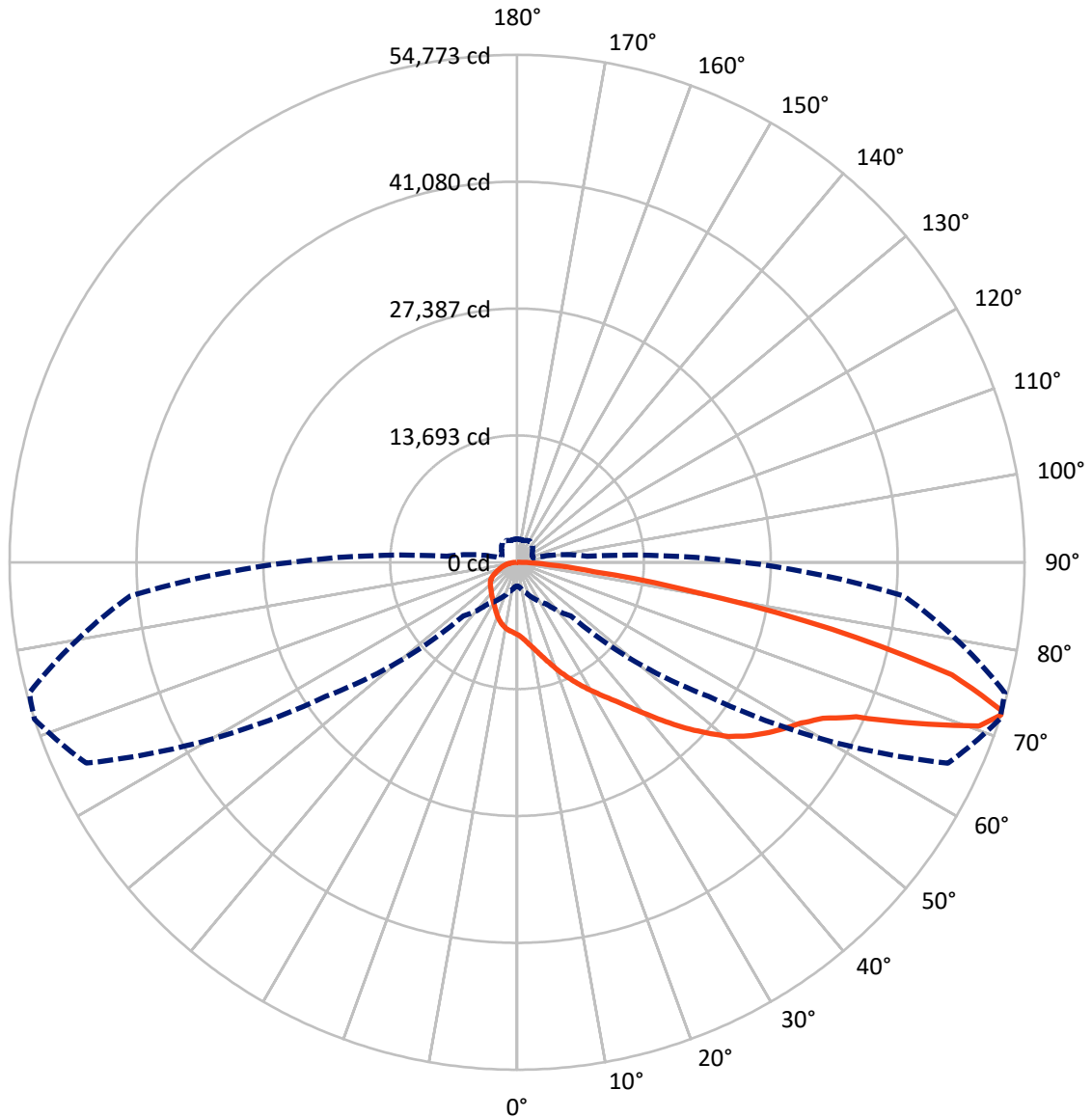
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 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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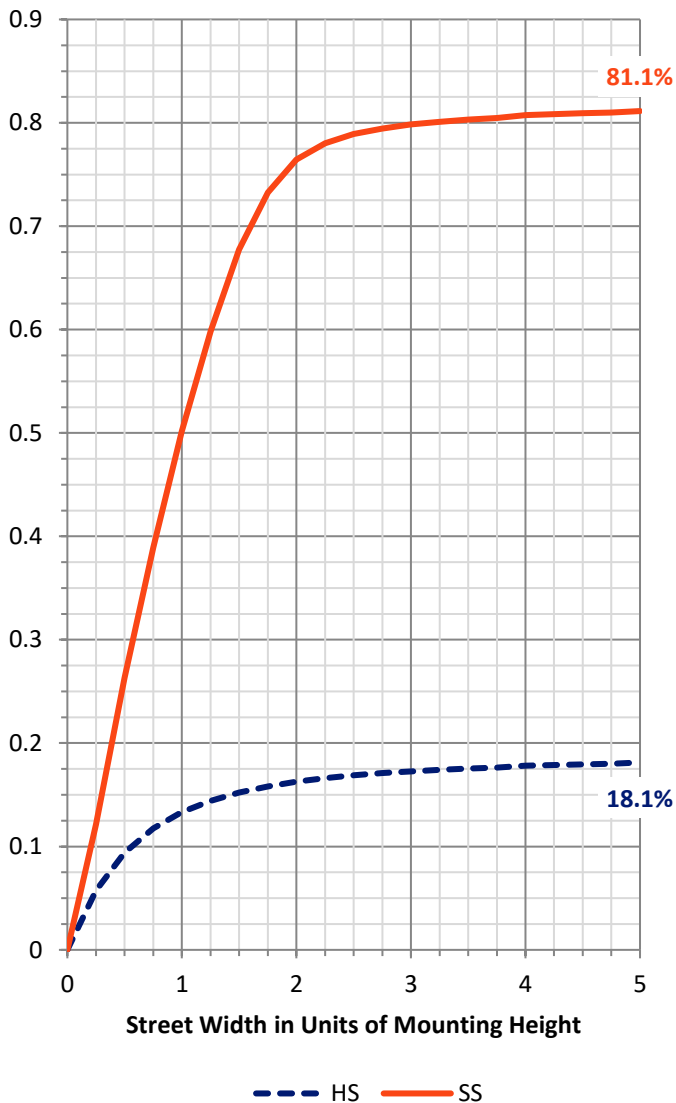
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11763.4	0.0	11763.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	51648.9	0.0	51648.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	63412.3	0.0	63412.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	781.7	1.2
10°-20°	2526.1	4.0
20°-30°	4426.6	7.0
30°-40°	6563.2	10.4
40°-50°	9599.3	15.1
50°-60°	13208.5	20.8
60°-70°	14705.0	23.2
70°-80°	9964.1	15.7
80°-90°	1637.7	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°	63412.3	100.0
0°-180°	63412.3	100.0

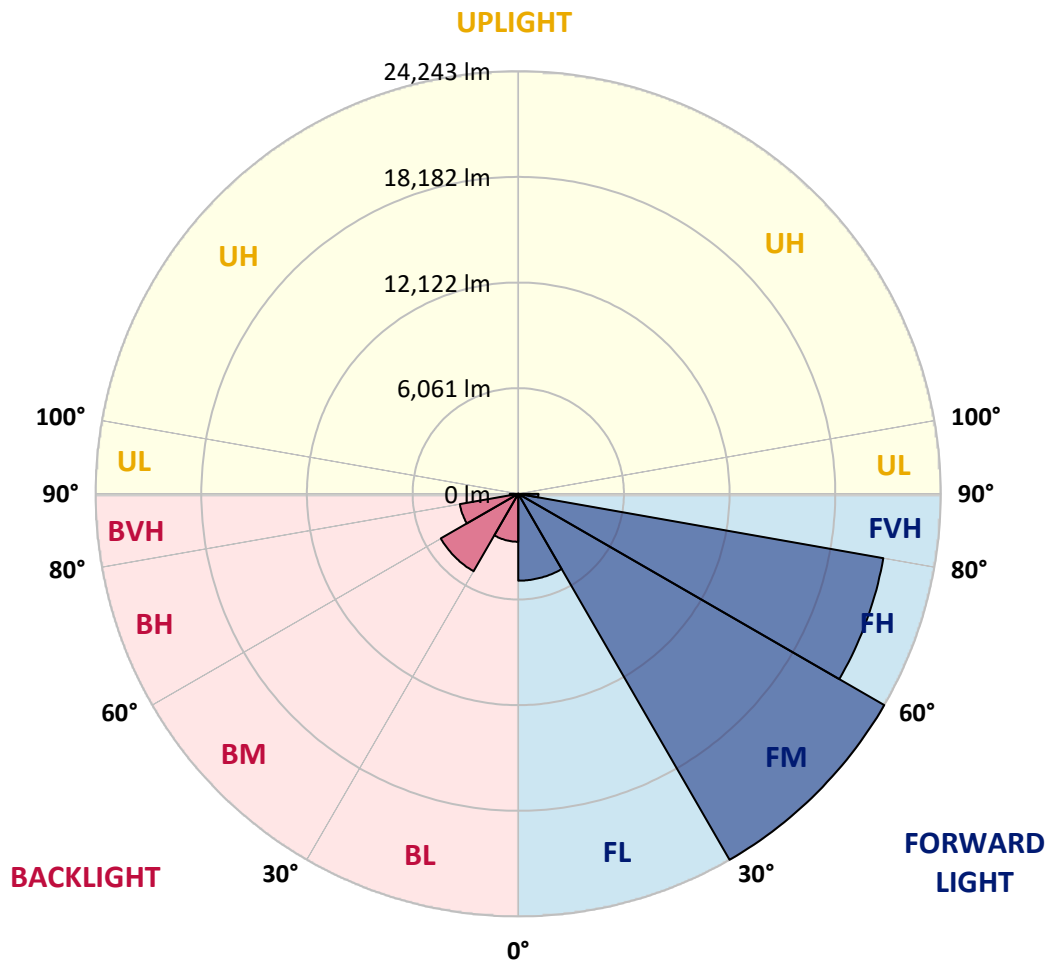


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4984.6	7.9			
FM (30°-60°)	24243.3	38.2			
FH (60°-80°)	21265.8	33.5			G5
FVH (80°-90°)	1155.2	1.8			G5
BL (0°-30°)	2749.9	4.3	B4/5000		
BM (30°-60°)	5127.7	8.1	B4/8500		
BH (60°-80°)	3403.3	5.4	B4/5000		G4/5000
BVH (80°-90°)	482.5	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	7801.3	7801.3	7801.3	7801.3	7801.3	7801.3	7801.3	7801.3	7801.3	7801.3	7801.3
2.5°	8617.9	8604.9	8559.1	8559.1	8471.7	8397.4	8257.7	8163.8	8052.5	8013.2	7882.2
5°	9452.0	9456.4	9399.6	9360.4	9231.5	9074.3	8836.3	8620.2	8404.0	8316.7	8048.1
7.5°	10152.9	10144.2	10128.9	10096.1	9976.0	9814.5	9493.5	9172.6	8853.8	8722.7	8259.8
10°	10602.7	10622.3	10635.5	10650.8	10600.5	10484.8	10181.3	9790.5	9373.4	9194.4	8513.1
12.5°	10829.8	10864.7	10925.8	11030.6	11113.6	11100.5	10880.0	10465.1	9969.5	9744.6	8829.8
15°	10962.9	11008.8	11104.9	11292.7	11526.3	11659.4	11600.6	11225.0	10672.6	10395.2	9216.3
17.5°	11045.9	11083.1	11231.5	11482.6	11829.8	12183.5	12338.5	12024.1	11467.4	11150.7	9659.5
20°	11102.7	11131.1	11316.7	11611.5	12061.2	12624.5	13056.9	12978.2	12342.9	11932.4	10122.4
22.5°	11229.3	11253.4	11430.2	11727.2	12225.0	12952.1	13749.0	13866.9	13266.4	12801.4	10618.0
25°	11583.0	11583.0	11731.5	11939.0	12406.2	13235.9	14334.2	14856.0	14209.7	13668.2	11076.5
27.5°	12257.8	12251.2	12305.7	12377.8	12731.6	13524.1	14856.0	15729.4	15187.9	14596.1	11521.9
30°	13056.9	13100.5	13107.1	13072.1	13238.1	13884.3	15338.6	16650.8	16172.6	15535.0	11978.2
32.5°	14085.3	14113.6	14080.9	13965.2	13941.2	14395.3	15812.4	17615.8	17238.1	16515.4	12395.3
35°	15390.9	15336.3	15233.8	14997.9	14773.0	15078.7	16353.9	18580.9	18434.7	17701.0	12969.6
37.5°	16790.5	16792.7	16666.0	16131.1	15821.1	15952.1	17100.6	19674.8	19882.2	19111.5	13705.3
40°	17912.8	17971.8	18050.3	17347.3	16945.5	17126.8	18050.3	20943.4	21594.0	20784.0	14663.9
42.5°	18696.6	18764.3	18987.1	18546.0	18128.9	18465.2	19168.3	22297.2	23515.4	22714.1	15786.1
45°	19526.4	19563.4	19720.7	19530.7	19264.3	20021.9	20428.1	23698.9	25548.3	24771.0	17041.6
47.5°	20399.7	20439.0	20600.6	20473.9	20334.2	21476.2	21742.5	25019.9	27495.8	27030.8	18382.2
50°	21478.3	21504.5	21657.4	21428.1	21471.8	22572.2	22917.2	26231.6	29537.3	29061.4	19727.2
52.5°	22950.0	22956.5	23168.3	22960.9	22755.7	23375.7	23928.1	27373.5	31137.8	30912.8	21072.2
55°	24102.8	24172.6	24867.0	24823.3	24705.4	24105.0	24773.1	28460.9	32565.8	32672.7	22500.1
57.5°	23366.9	23639.9	25046.1	26037.3	27002.4	25919.4	25915.0	29685.8	33893.2	34399.8	24070.1
60°	20465.3	20836.4	22908.4	25107.2	28126.9	29076.7	28286.3	31181.4	35233.9	36111.6	26037.3
62.5°	14615.8	15227.2	18035.0	21546.0	26585.3	31168.4	33111.6	33554.8	37057.1	38094.1	28594.1
65°	7388.7	7851.5	10205.3	14434.6	21240.3	29801.5	38356.2	38751.4	40225.2	41146.6	32530.9
67.5°	4489.1	4663.8	5812.3	8028.4	13021.9	23214.2	40068.0	47413.0	46356.2	46845.3	38144.4
70°	3307.9	3436.7	4152.8	5331.9	7489.2	13622.4	34814.6	53594.3	52900.0	52845.4	42292.9
72°	2576.5	2670.3	3303.5	4307.8	5476.0	8172.6	25233.9	51312.6	54773.3	54498.2	41912.9
72.5°	2443.3	2526.3	3102.6	4054.7	5174.7	7408.3	22687.9	49773.3	54638.0	54513.5	41421.7
75°	1923.6	1982.5	2296.9	3135.4	4050.3	4203.0	12432.4	38572.3	48469.8	50485.1	37255.8
77.5°	1591.7	1600.5	1766.4	2281.6	3157.2	2971.6	6107.0	26762.2	34707.7	36923.8	26391.0
80°	1297.0	1307.9	1386.5	1600.5	2388.7	2198.7	2899.6	15388.8	19432.5	19456.5	12550.3
82.5°	1032.7	1034.9	1122.2	1170.3	1716.2	1572.1	1661.6	7225.0	8491.3	8168.2	4510.9
85°	727.1	711.8	1096.1	960.7	1122.2	1008.8	917.0	2860.3	3510.9	3358.1	1412.7
87.5°	242.4	251.1	486.9	622.3	655.1	572.1	408.3	1096.1	1325.3	1314.4	447.6
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°	7801.3	7801.3	7801.3	7801.3	7801.3	7801.3	7801.3	7801.3	7801.3	7801.3	7801.3
2.5°	7840.6	7770.8	7668.2	7554.7	7465.1	7373.4	7305.8	7270.8	7231.5	7198.7	7238.0
5°	7923.7	7792.7	7574.3	7360.3	7203.1	7063.4	6962.9	6910.5	6862.5	6829.7	6834.1
7.5°	8059.0	7847.3	7480.4	7168.2	6949.8	6799.2	6696.5	6661.6	6631.0	6622.3	6633.3
10°	8203.1	7890.9	7356.0	6941.1	6692.1	6567.7	6521.9	6545.9	6567.7	6587.3	6609.2
12.5°	8366.9	7930.2	7174.7	6674.7	6462.9	6414.9	6460.7	6565.5	6641.9	6687.9	6716.2
15°	8580.9	7965.1	6965.1	6408.3	6266.4	6321.0	6476.0	6657.2	6790.4	6875.6	6888.7
17.5°	8777.3	7963.0	6696.5	6139.8	6107.0	6266.4	6500.1	6755.5	6934.5	7054.6	7078.6
20°	8980.4	7904.0	6384.4	5877.8	5945.4	6207.5	6511.0	6818.8	7035.0	7174.7	7207.5
22.5°	9170.3	7801.3	6041.6	5639.8	5810.1	6128.8	6469.5	6781.7	6997.9	7111.4	7146.4
25°	9299.2	7622.3	5694.4	5438.9	5690.0	6032.8	6334.2	6585.2	6746.7	6803.6	6812.3
27.5°	9364.7	7388.7	5366.8	5264.3	5565.5	5875.6	6083.0	6207.5	6253.3	6248.9	6240.3
30°	9373.4	7080.9	5085.2	5122.3	5421.4	5644.2	5742.4	5718.4	5659.4	5559.0	5567.8
32.5°	9345.0	6733.7	4849.4	4986.9	5238.0	5362.5	5366.8	5251.1	5093.9	4934.5	4890.9
35°	9353.8	6393.0	4642.0	4834.1	5015.4	5069.9	5019.6	4849.4	4635.4	4430.2	4386.5
37.5°	9449.9	6096.1	4463.0	4657.3	4768.6	4781.7	4709.6	4530.6	4373.4	4172.5	4155.1
40°	9679.2	5884.3	4292.6	4458.6	4521.8	4528.4	4425.8	4299.2	4312.2	4205.3	4203.0
42.5°	10091.7	5792.6	4141.9	4251.1	4290.4	4303.6	4224.9	4144.2	4257.6	4187.8	4163.8
45°	10624.6	5814.4	4015.3	4048.0	4120.1	4181.3	4133.2	4035.0	4078.6	3775.1	3674.7
47.5°	11240.2	5954.2	3914.9	3873.4	3997.8	4113.5	4039.4	3890.9	3735.9	3434.5	3377.8
50°	11960.8	6170.4	3823.2	3700.9	3864.6	4021.9	3947.6	3735.9	3502.2	3355.9	3336.2
52.5°	12711.9	6434.6	3731.5	3510.9	3696.6	3952.0	3914.9	3700.9	3412.7	3268.6	3242.3
55°	13563.4	6700.9	3615.7	3290.4	3515.3	3919.2	3899.6	3574.3	3345.0	3264.2	3244.6
57.5°	14622.4	7004.4	3462.9	3061.2	3345.0	3801.4	3740.2	3497.9	3275.1	3214.0	3207.4
60°	16002.3	7452.0	3242.3	2816.6	3137.5	3620.1	3607.0	3386.5	3163.8	3120.1	3111.4
62.5°	18072.2	8192.2	2938.8	2572.1	2906.1	3312.2	3432.4	3235.8	3045.9	3043.6	3048.0
65°	21281.9	9305.8	2609.2	2358.1	2672.5	3052.4	3229.3	3080.8	2925.8	2969.5	2976.0
67.5°	25002.4	10229.3	2286.0	2148.5	2434.5	2805.7	3045.9	2925.8	2766.4	2880.0	2882.1
70°	26240.4	9404.0	2002.2	1941.1	2187.8	2567.7	2847.2	2755.5	2593.9	2707.4	2696.6
72°	24419.4	7591.7	1818.8	1783.8	2002.2	2371.2	2670.3	2596.1	2436.7	2513.1	2484.7
72.5°	23845.2	7238.0	1772.9	1744.5	1952.0	2321.0	2624.4	2556.8	2397.4	2462.9	2436.7
75°	21270.9	6286.1	1524.0	1530.5	1703.1	2076.4	2366.9	2345.0	2181.2	2187.8	2179.1
77.5°	15428.1	4609.2	1283.9	1327.5	1449.8	1825.4	2107.0	2093.9	1914.9	1882.1	1875.6
80°	7159.4	2351.5	1045.8	1065.5	1192.2	1526.2	1797.0	1779.5	1635.4	1593.9	1569.8
82.5°	2452.0	1118.0	786.0	799.2	923.6	1229.3	1558.9	1548.0	1428.0	1347.2	1297.0
85°	875.6	556.8	550.3	537.1	659.3	967.2	1358.1	1299.1	1122.2	956.3	951.9
87.5°	283.8	238.0	283.8	281.7	384.3	655.1	986.9	840.6	814.5	676.9	663.7
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)