

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: P383403

Luminaire Tested: **GLEON-SA7A-735-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7A-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30713.1 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

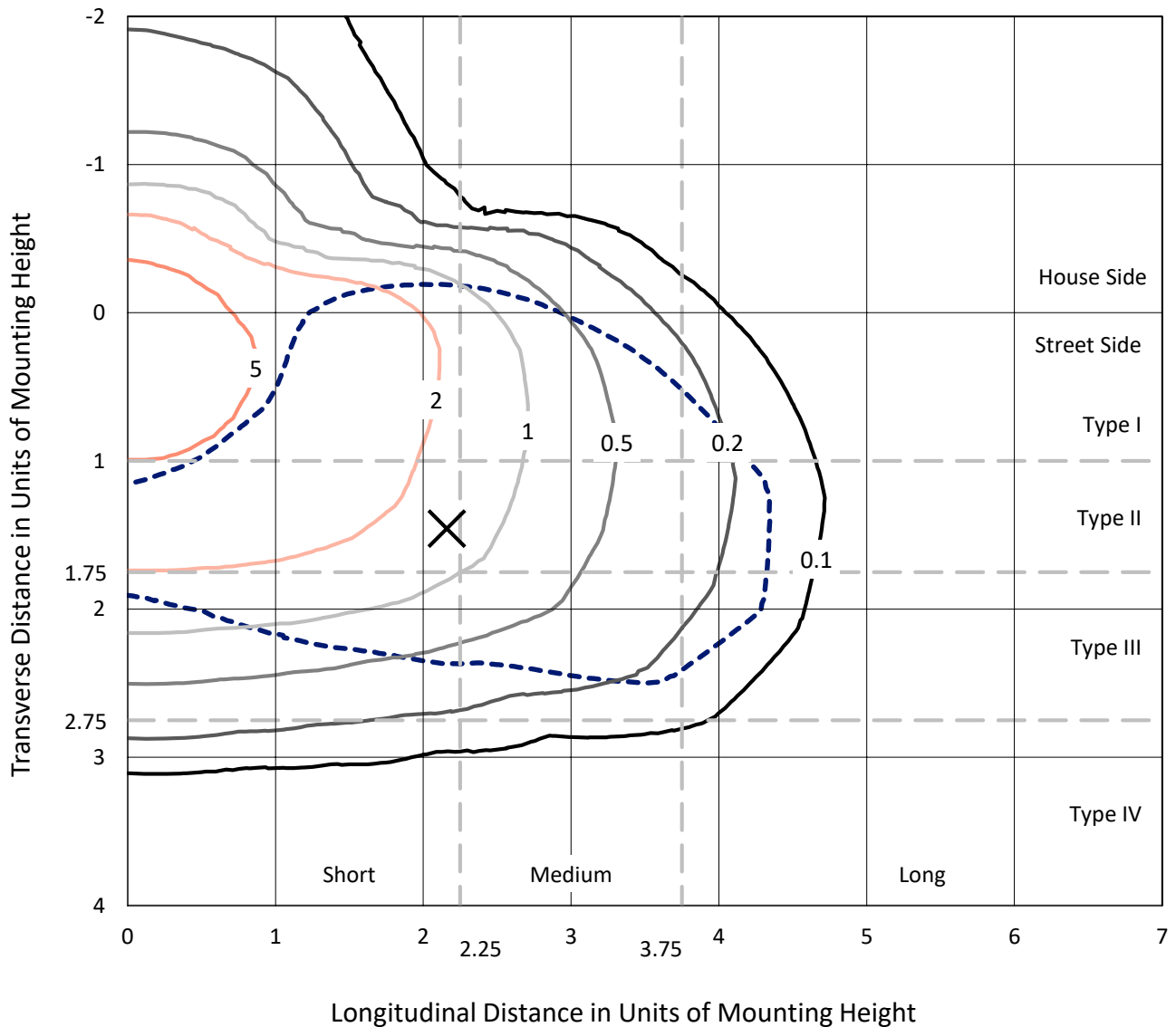
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

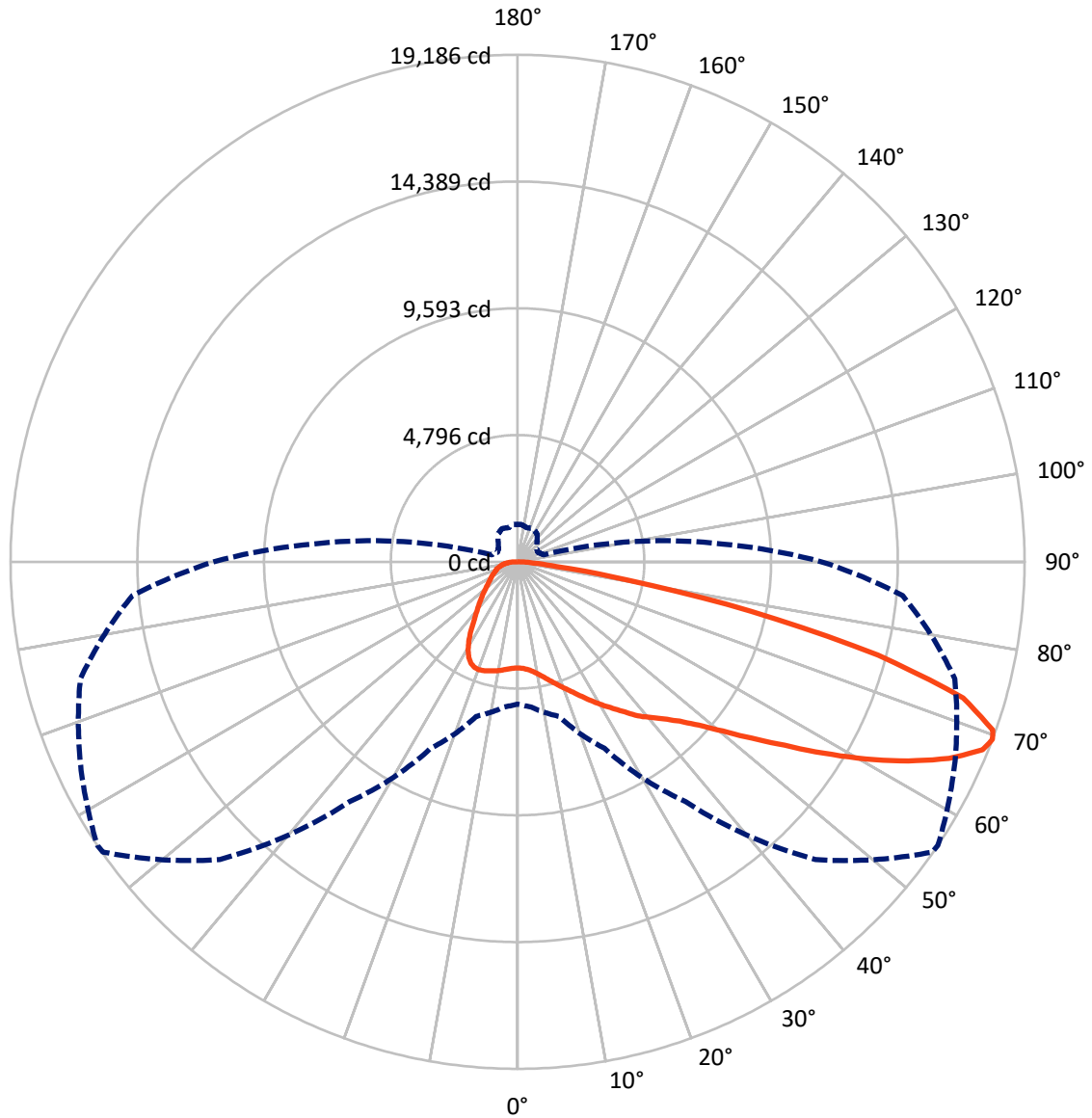
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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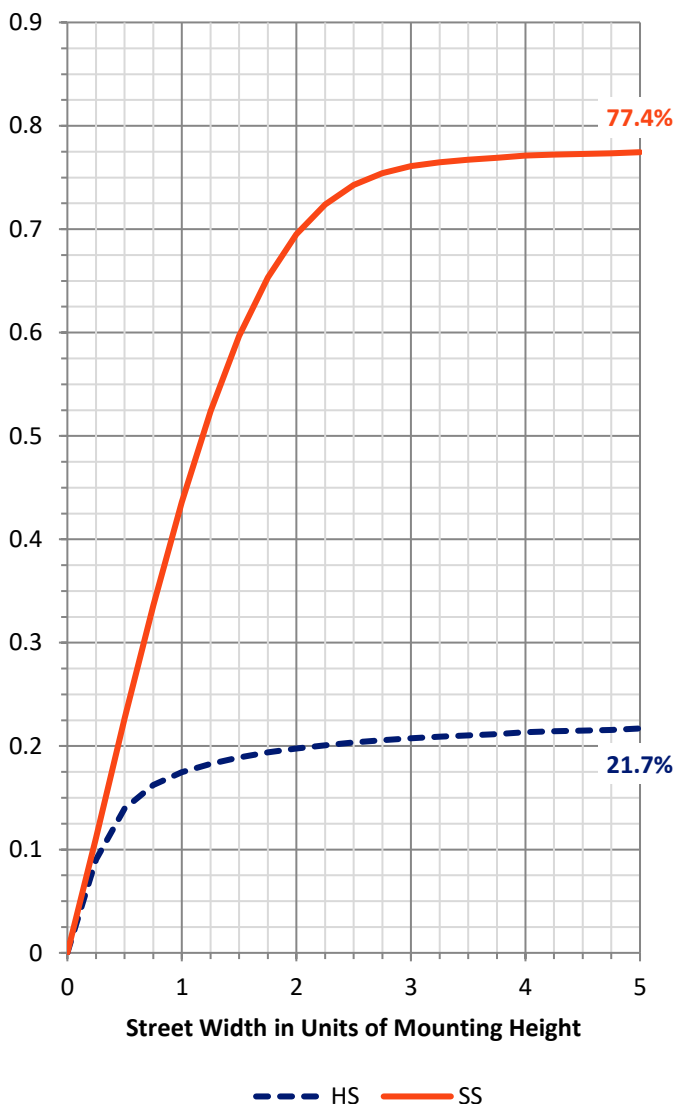
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6839.8	0.0	6839.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	23873.4	0.0	23873.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	30713.1	0.0	30713.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.4	1.3
10°-20°	1268.1	4.1
20°-30°	2213.6	7.2
30°-40°	3179.8	10.4
40°-50°	4400.7	14.3
50°-60°	6447.7	21.0
60°-70°	7860.9	25.6
70°-80°	4346.0	14.2
80°-90°	601.9	2.0
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°	30713.1	100.0
0°-180°	30713.1	100.0



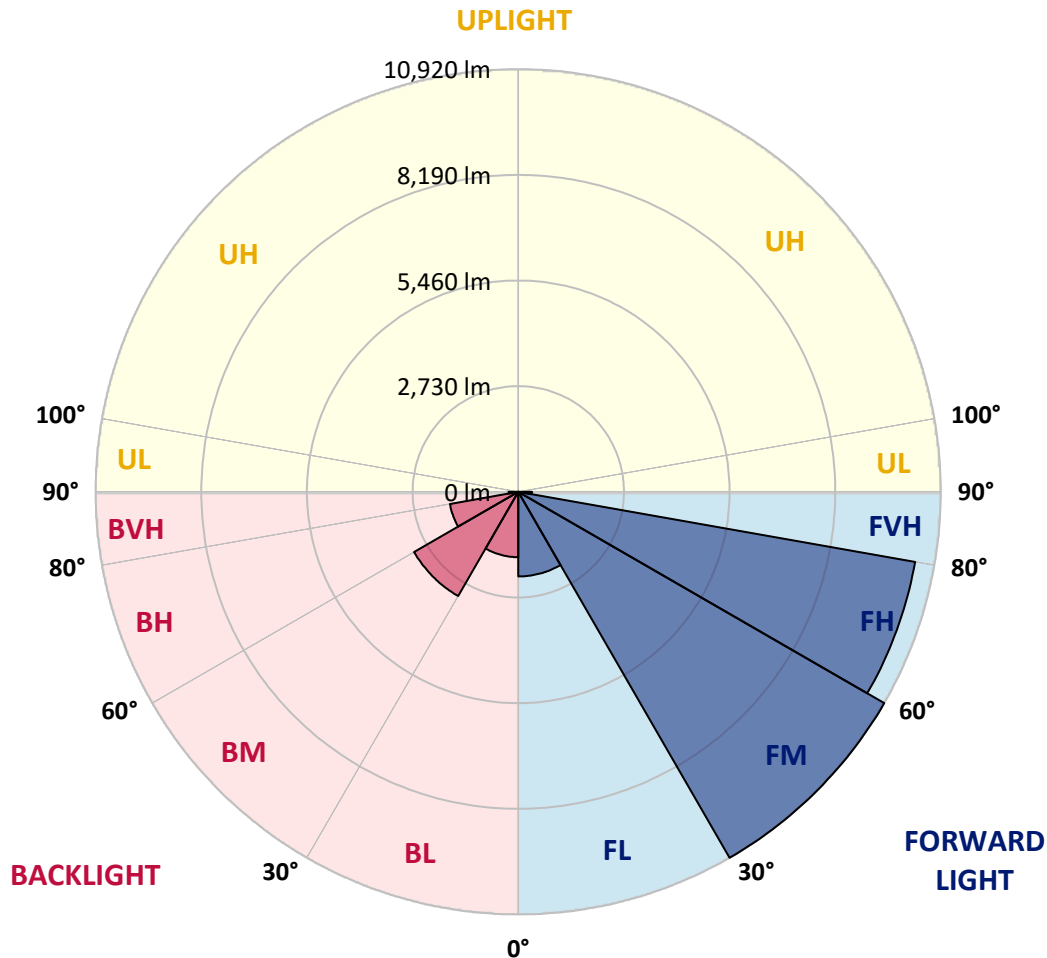
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2185.9	7.1			
FM (30°-60°)	10919.7	35.6			
FH (60°-80°)	10413.3	33.9			G4/12000
FVH (80°-90°)	354.5	1.2			G3/500
BL (0°-30°)	1690.3	5.5	B3/2500		
BM (30°-60°)	3108.5	10.1	B3/5000		
BH (60°-80°)	1793.6	5.8	B3/2500		G3/2500
BVH (80°-90°)	247.4	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4015.2	4015.2	4015.2	4015.2	4015.2	4015.2	4015.2	4015.2	4015.2	4015.2	4015.2
2.5°	4040.7	4044.9	4041.7	4050.2	4040.7	4047.0	4041.7	4041.7	4038.5	4029.0	4018.4
5°	4104.1	4112.6	4107.3	4115.8	4104.1	4106.3	4096.8	4096.8	4087.3	4067.1	4046.0
7.5°	4203.6	4213.1	4208.9	4217.4	4201.5	4201.5	4188.8	4187.8	4168.7	4135.9	4111.6
10°	4322.1	4334.8	4330.6	4343.2	4330.6	4334.8	4322.1	4322.1	4296.8	4250.2	4219.4
12.5°	4494.5	4510.5	4498.8	4497.8	4492.5	4501.0	4490.3	4488.2	4464.9	4401.5	4359.2
15°	4725.2	4742.1	4717.8	4715.7	4686.1	4682.9	4682.9	4679.7	4664.9	4588.7	4518.9
17.5°	4990.8	4996.1	4974.9	4941.0	4903.0	4878.6	4875.4	4883.9	4883.9	4795.0	4684.0
20°	5251.0	5260.6	5243.7	5205.6	5157.0	5120.9	5095.6	5112.4	5111.4	5005.6	4848.0
22.5°	5534.6	5556.9	5531.4	5482.8	5425.6	5385.5	5341.0	5355.8	5356.9	5226.7	5008.7
25°	5901.7	5881.7	5865.8	5797.0	5715.5	5674.3	5633.1	5647.9	5643.6	5464.8	5174.9
27.5°	6226.6	6230.8	6209.7	6136.7	6042.5	5951.5	5949.4	5958.9	5943.0	5712.3	5331.5
30°	6604.3	6606.4	6576.8	6511.2	6408.6	6291.1	6263.6	6279.5	6245.7	5947.3	5496.5
32.5°	6979.9	6990.5	6957.7	6878.4	6795.8	6653.0	6598.0	6608.6	6523.9	6187.4	5666.9
35°	7309.0	7323.8	7313.2	7260.3	7170.4	7047.6	6982.0	6975.7	6870.9	6481.6	5892.2
37.5°	7644.4	7658.2	7646.5	7602.1	7566.0	7435.9	7401.1	7401.1	7219.0	6782.0	6179.0
40°	7989.3	8010.5	7996.7	7935.3	7904.6	7845.4	7761.8	7741.7	7544.9	7142.8	6646.6
42.5°	8309.9	8337.4	8392.4	8356.4	8294.0	8302.5	8134.3	8123.7	7979.7	7676.1	7233.8
45°	8764.8	8805.1	8898.1	8870.7	8858.0	8811.4	8611.4	8601.9	8546.9	8393.4	7962.9
47.5°	9261.1	9316.0	9484.3	9489.6	9626.1	9538.3	9266.4	9233.6	9246.3	9252.6	8852.7
50°	9718.2	9778.5	10054.6	10184.7	10506.4	10525.5	10090.5	10060.9	10110.6	10256.7	9889.5
52.5°	10083.2	10159.4	10504.2	10906.3	11457.6	11614.2	11105.3	11083.0	11120.1	11371.9	11061.8
55°	10350.9	10433.3	10809.0	11541.1	12421.4	12697.6	12273.3	12252.2	12275.5	12596.0	12336.8
57.5°	10413.3	10433.3	10978.3	11968.6	13235.1	13898.5	13702.7	13660.4	13546.1	13825.5	13744.0
60°	10120.2	10200.6	10838.6	12118.9	13864.6	15082.4	15196.7	15143.8	14823.2	15051.8	14986.2
62.5°	9525.5	9669.5	10317.0	11890.3	14111.2	16049.4	16662.1	16598.6	16046.3	16194.4	15879.2
65°	8554.3	8615.7	9296.0	11102.1	13798.0	16668.5	17968.8	17937.0	17241.9	17010.2	16044.2
67.5°	6817.0	6932.3	7510.0	9454.6	12516.6	16595.4	18979.2	18976.0	18022.7	17312.8	15459.1
69°	5385.5	5505.0	6055.2	7788.3	11075.6	15927.8	19148.5	19185.5	18242.8	17128.6	14623.2
70°	4293.5	4432.1	4809.9	6559.9	9796.4	15047.5	19007.8	19074.5	18200.5	16825.1	13851.9
72.5°	1827.2	1939.4	2208.1	3381.5	5970.6	11236.4	17379.4	17631.2	17219.7	15398.8	11448.1
75°	797.8	832.7	954.4	1378.6	2650.4	6115.5	13614.9	14080.4	14723.8	13016.0	8527.9
77.5°	584.1	598.9	665.5	809.4	1189.2	2309.7	8755.3	9026.1	10618.5	9471.6	5231.0
80°	451.8	462.3	514.2	594.6	776.6	934.2	3993.1	4225.9	5970.6	4864.9	2178.5
82.5°	359.8	367.1	403.1	438.0	536.4	566.0	1325.7	1470.7	2203.9	1343.8	576.6
85°	334.3	342.8	355.5	319.5	343.8	332.2	573.5	599.9	665.5	528.0	241.3
87.5°	151.3	178.8	352.3	248.6	183.0	146.0	234.8	245.5	276.1	277.2	106.8
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°	4015.2	4015.2	4015.2	4015.2	4015.2	4015.2	4015.2	4015.2	4015.2	4015.2	4015.2
2.5°	4024.8	4021.6	4026.9	4014.2	4030.1	4029.0	4023.7	4025.9	4036.4	4035.4	4036.4
5°	4049.2	4047.0	4053.3	4043.8	4062.9	4069.3	4070.3	4079.8	4091.5	4094.6	4094.6
7.5°	4110.5	4110.5	4113.7	4101.0	4113.7	4112.6	4107.3	4116.9	4128.5	4129.6	4128.5
10°	4216.3	4217.4	4212.1	4179.3	4168.7	4140.2	4113.7	4114.7	4129.6	4141.2	4144.4
12.5°	4349.6	4345.4	4322.1	4261.8	4217.4	4159.2	4131.7	4130.6	4145.4	4155.0	4158.1
15°	4502.0	4490.3	4430.1	4331.6	4253.4	4196.2	4151.7	4141.2	4132.7	4122.1	4123.2
17.5°	4645.9	4619.5	4518.9	4382.5	4299.9	4223.7	4138.0	4069.3	4021.6	3994.1	3985.6
20°	4791.9	4740.0	4595.0	4430.1	4325.3	4186.7	4021.6	3881.9	3795.2	3755.0	3747.6
22.5°	4925.2	4841.6	4665.9	4479.7	4305.1	4061.8	3802.6	3599.5	3478.9	3424.9	3429.1
25°	5055.3	4939.0	4740.0	4514.7	4203.6	3841.8	3497.9	3248.2	3108.6	3048.2	3046.1
27.5°	5169.6	5037.3	4820.5	4486.1	4014.2	3528.6	3137.1	2893.8	2777.4	2725.5	2717.0
30°	5300.8	5161.1	4927.3	4377.2	3737.0	3166.7	2784.8	2613.4	2530.8	2479.0	2469.4
32.5°	5460.5	5329.4	5015.2	4179.3	3382.5	2789.0	2509.7	2390.2	2315.0	2256.8	2246.2
35°	5693.3	5551.6	5037.3	3895.7	2993.2	2490.7	2307.6	2184.9	2083.3	2008.1	2000.8
37.5°	5985.4	5829.8	4986.6	3528.6	2615.5	2297.0	2139.4	1988.1	1855.8	1750.0	1733.1
40°	6406.4	6171.6	4845.8	3105.3	2337.3	2147.9	1975.3	1802.9	1638.9	1515.2	1490.8
42.5°	6912.2	6572.5	4630.0	2684.3	2133.1	1996.5	1812.4	1598.7	1442.1	1354.3	1341.6
45°	7555.5	6989.4	4330.6	2316.0	1932.0	1845.2	1636.8	1440.0	1342.6	1278.1	1267.6
47.5°	8289.7	7457.1	4016.4	2016.6	1761.6	1703.4	1496.1	1369.1	1291.9	1241.1	1231.6
50°	9192.3	7985.0	3683.1	1771.2	1590.2	1533.1	1429.5	1330.0	1268.6	1229.5	1220.0
52.5°	10210.1	8580.8	3442.9	1577.6	1448.5	1407.2	1394.5	1308.8	1259.1	1229.5	1220.0
55°	11306.3	9187.0	3183.7	1414.6	1325.7	1337.3	1371.2	1310.9	1277.1	1241.1	1227.3
57.5°	12403.5	9813.4	2894.8	1277.1	1228.4	1285.5	1355.3	1315.2	1286.6	1251.6	1239.0
60°	13271.0	10210.1	2447.3	1161.7	1151.1	1228.4	1317.3	1283.4	1246.4	1247.4	1245.3
62.5°	13676.2	10189.0	1953.2	1059.1	1073.9	1151.1	1255.9	1233.6	1203.0	1244.3	1247.4
65°	13448.8	9681.1	1520.4	966.0	991.4	1070.7	1192.4	1209.3	1220.0	1299.3	1309.8
67.5°	12494.5	8692.9	1177.6	884.5	916.3	1015.8	1198.8	1317.3	1331.0	1414.6	1413.5
69°	11507.3	7766.0	1023.1	842.2	879.2	1029.5	1281.3	1386.0	1334.2	1423.0	1410.4
70°	10679.9	7032.8	940.6	813.6	862.3	1053.8	1336.3	1385.0	1318.3	1394.5	1373.4
72.5°	8225.2	5059.6	797.8	760.7	805.1	1008.3	1352.1	1354.3	1281.3	1296.1	1260.1
75°	5641.5	3197.4	696.2	688.8	718.4	908.8	1301.4	1294.0	1185.0	1163.9	1134.3
77.5°	3110.6	1624.1	591.4	620.0	640.2	805.1	1182.9	1172.4	1082.4	1037.9	1027.4
80°	1199.8	711.1	499.4	551.2	564.0	697.3	1036.9	1027.4	952.2	895.1	879.2
82.5°	452.8	372.4	412.7	477.1	472.9	575.6	878.2	872.9	799.9	716.3	690.9
85°	209.5	223.3	327.0	393.6	362.9	426.4	702.6	712.1	623.2	523.7	523.7
87.5°	88.9	124.8	231.7	297.3	244.4	287.8	515.2	492.0	451.8	313.2	294.2
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)