

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: P382882

Luminaire Tested: **GLEON-SA2C-735-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2C-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13830.7 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

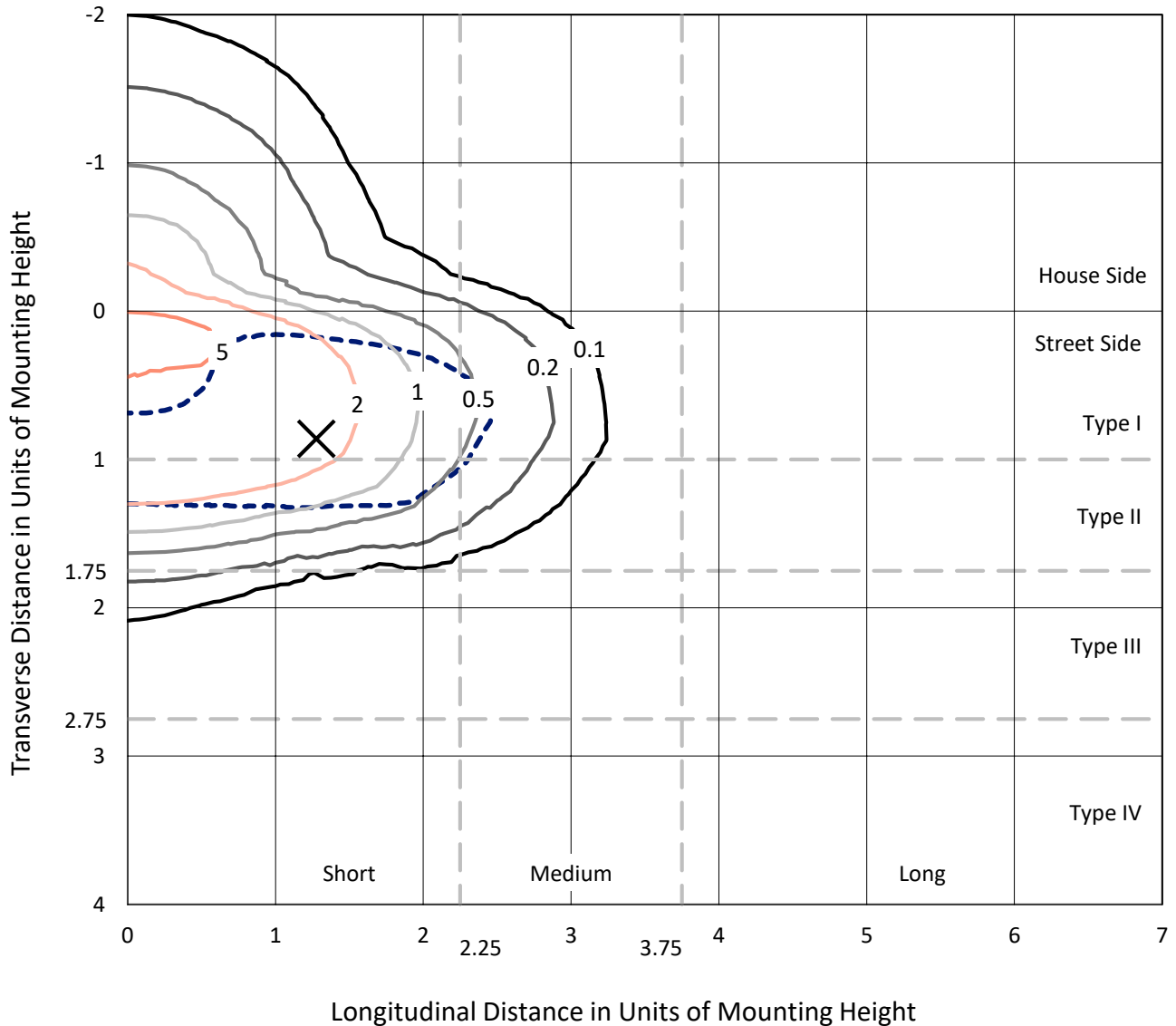
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

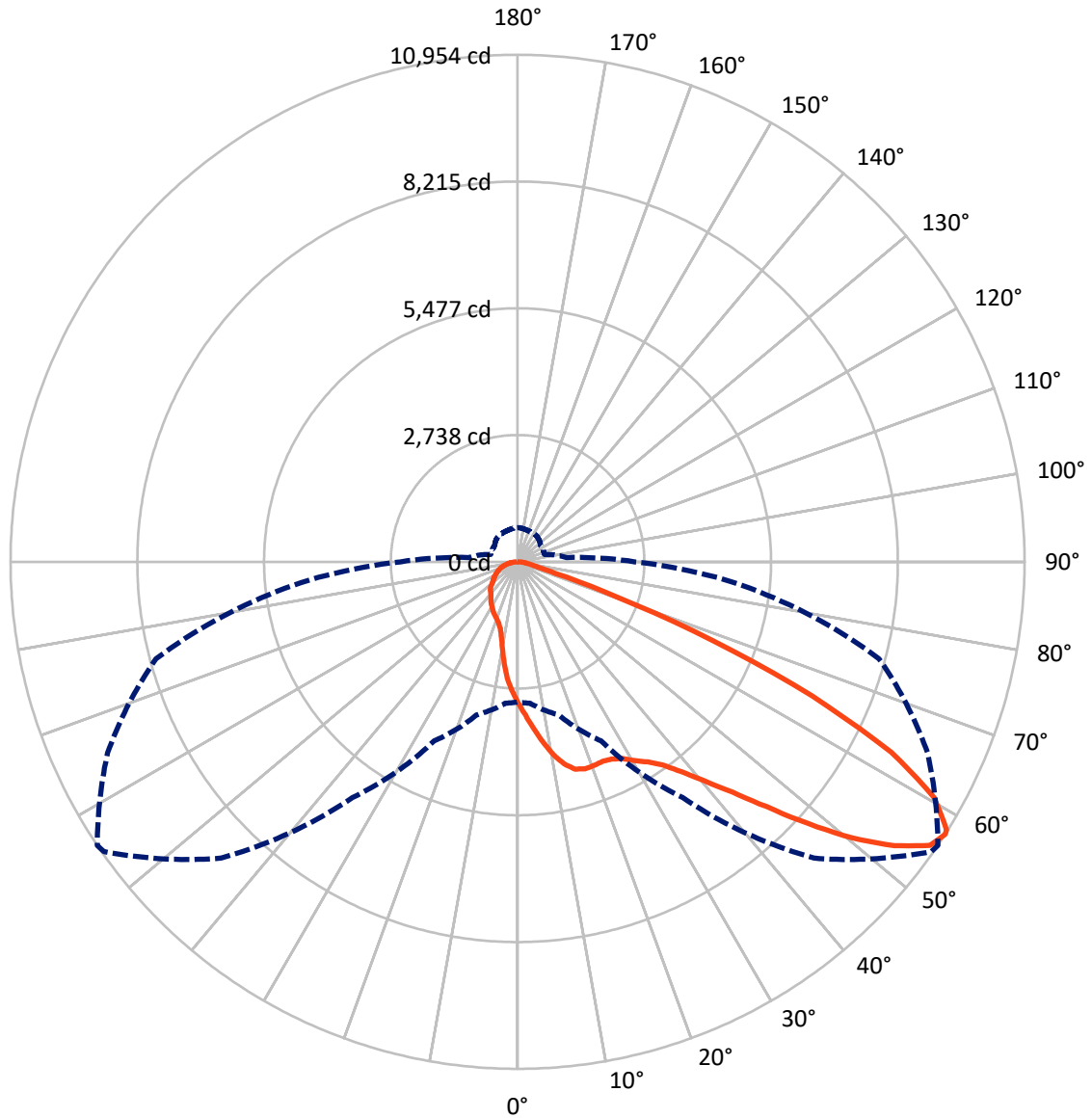
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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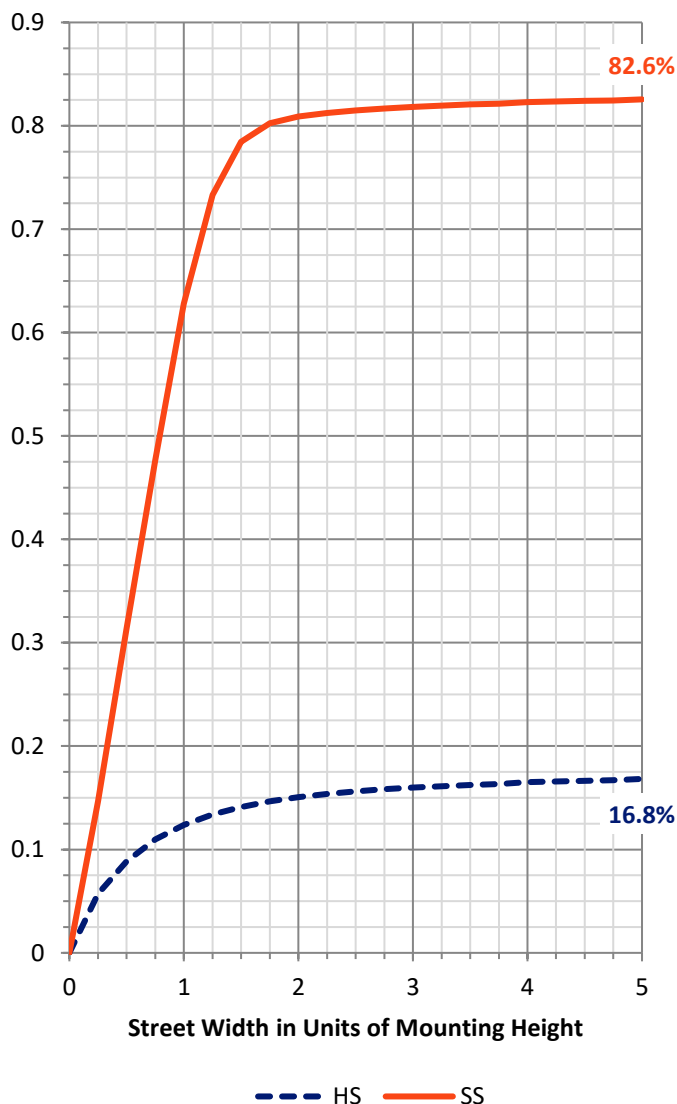
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2384.1	0.0	2384.1
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	11446.6	0.0	11446.6
	% Fixture	82.8	0.0	82.8
Total	Lumens	13830.7	0.0	13830.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.0	2.1
10°-20°	828.5	6.0
20°-30°	1349.4	9.8
30°-40°	2017.3	14.6
40°-50°	3059.8	22.1
50°-60°	3429.5	24.8
60°-70°	2025.6	14.6
70°-80°	663.7	4.8
80°-90°	164.0	1.2
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°	13830.7	100.0
0°-180°	13830.7	100.0

Coefficient of Utilization



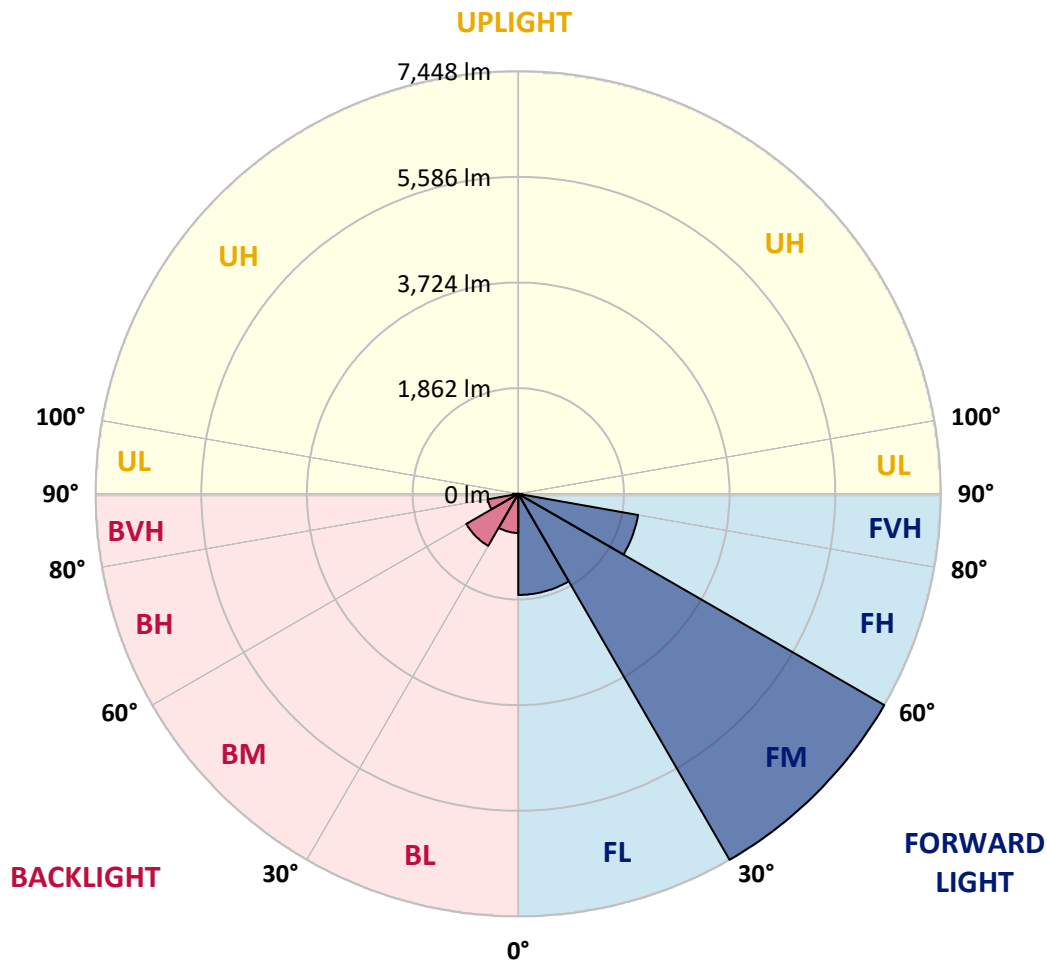
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1781.6	12.9			
FM (30°-60°)	7448.3	53.9			
FH (60°-80°)	2144.5	15.5			G2/5000
FVH (80°-90°)	72.2	0.5			G1/100
BL (0°-30°)	689.4	5.0	B2/1000		
BM (30°-60°)	1058.2	7.7	B2/2500		
BH (60°-80°)	544.7	3.9	B2/1000		G2/1000
BVH (80°-90°)	91.8	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3067.7	3067.7	3067.7	3067.7	3067.7	3067.7	3067.7	3067.7	3067.7	3067.7	3067.7
2.5°	3522.6	3554.9	3540.6	3491.2	3453.2	3399.4	3339.5	3321.4	3258.3	3187.5	3102.3
5°	4080.1	4063.9	4040.6	3963.6	3882.3	3787.8	3637.6	3613.8	3473.1	3313.0	3143.7
7.5°	4397.6	4396.2	4382.4	4337.2	4263.0	4139.5	3958.4	3930.4	3717.9	3460.2	3197.9
10°	4351.4	4348.2	4371.0	4418.1	4440.3	4414.7	4262.1	4234.1	3973.1	3623.3	3260.6
12.5°	4089.6	4091.5	4128.1	4226.9	4361.4	4523.0	4498.4	4484.6	4237.9	3807.7	3336.7
15°	3885.7	3890.0	3918.9	4005.0	4163.7	4457.0	4641.9	4646.7	4494.1	4011.2	3425.6
17.5°	3796.3	3805.4	3818.7	3879.1	4024.5	4325.4	4676.1	4701.8	4718.4	4222.1	3511.1
20°	3824.8	3833.4	3837.2	3875.7	3995.0	4245.4	4652.3	4698.4	4890.4	4420.8	3596.7
22.5°	3952.6	3958.0	3960.3	3970.3	4062.9	4268.3	4636.7	4685.1	5015.0	4599.1	3661.4
25°	4164.7	4160.9	4145.7	4132.8	4195.1	4358.6	4672.8	4718.8	5116.2	4760.7	3703.6
27.5°	4418.5	4413.8	4384.2	4349.1	4384.7	4499.3	4776.9	4813.5	5207.1	4911.9	3725.0
30°	4723.1	4710.8	4655.2	4613.4	4627.2	4710.4	4948.5	4981.7	5347.3	5083.5	3745.9
32.5°	5075.4	5062.0	4981.7	4912.3	4912.3	4981.7	5125.3	5152.9	5466.0	5277.4	3779.7
35°	5516.4	5499.9	5395.2	5278.8	5246.0	5281.2	5366.3	5385.7	5679.9	5521.7	3841.0
37.5°	6036.4	6014.1	5878.6	5722.8	5651.0	5649.1	5710.4	5750.4	6021.7	5842.5	3945.1
40°	6557.9	6542.2	6423.9	6301.2	6160.5	6115.3	6210.0	6222.3	6468.5	6240.8	4078.1
42.5°	6960.9	6958.1	6936.2	6952.4	6808.4	6717.1	6791.3	6801.2	7014.2	6671.9	4219.8
45°	7173.8	7178.6	7284.6	7519.5	7572.6	7506.1	7542.7	7545.5	7637.8	7106.9	4349.6
47.5°	7003.3	7028.0	7296.1	7821.3	8257.1	8478.1	8417.3	8452.5	8242.3	7480.4	4451.3
50°	6338.2	6368.7	6825.0	7686.8	8576.5	9418.8	9386.9	9378.8	8730.0	7754.2	4506.5
52.5°	5514.6	5538.3	5914.8	6987.5	8342.2	9938.8	10231.1	10189.3	9163.5	7959.0	4516.9
55°	4260.2	4297.3	4658.0	5592.1	7394.4	9740.1	10851.9	10814.2	9558.5	8066.6	4504.5
57°	3028.6	3067.7	3426.0	4267.8	6220.4	9052.3	10913.6	10953.5	9771.9	8084.5	4518.3
57.5°	2702.6	2742.6	3097.6	3915.1	5854.4	8803.7	10860.4	10927.0	9810.4	8081.7	4525.9
60°	1360.8	1376.0	1602.3	2185.5	3700.8	7117.3	10166.0	10337.6	9845.2	7942.0	4558.7
62.5°	846.0	835.1	828.0	1006.7	1800.5	4719.9	8732.9	9063.2	9181.1	7603.6	4479.3
65°	743.8	723.4	645.0	630.8	795.2	2292.4	6576.4	6987.5	7762.3	7070.3	4290.1
67.5°	698.8	678.7	590.3	537.1	537.6	908.8	4082.9	4545.9	6047.0	6168.6	3843.8
70°	652.1	634.1	551.4	488.6	457.8	503.3	1878.5	2229.7	3941.8	4848.6	3212.6
72.5°	592.3	579.9	501.5	436.8	404.0	376.9	719.2	849.4	2282.0	3256.3	2231.1
75°	529.5	518.1	451.1	389.3	349.3	296.6	404.9	436.3	1159.3	1666.0	1098.5
77.5°	460.6	453.9	401.1	344.1	312.3	245.7	286.6	301.8	497.2	714.4	550.9
80°	366.5	379.3	350.8	306.6	277.1	196.7	203.0	213.0	289.4	348.9	312.7
82.5°	238.6	260.9	274.7	249.1	228.1	154.9	145.9	150.2	188.7	213.0	135.9
85°	99.3	111.7	180.6	163.0	151.7	113.1	97.9	99.9	116.9	121.2	55.6
87.5°	44.2	47.0	79.4	74.6	64.2	38.9	41.8	45.6	62.2	59.0	21.4
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°	3067.7	3067.7	3067.7	3067.7	3067.7	3067.7	3067.7	3067.7	3067.7	3067.7	3067.7
2.5°	3070.5	3030.6	2962.1	2886.6	2824.7	2775.4	2725.4	2691.2	2651.3	2629.9	2619.0
5°	3072.9	2994.5	2850.4	2702.6	2570.5	2449.8	2334.7	2246.3	2163.6	2118.9	2106.6
7.5°	3082.9	2965.0	2732.0	2488.7	2254.0	2039.5	1874.2	1770.5	1695.9	1662.6	1653.1
10°	3091.0	2930.3	2585.7	2225.4	1906.0	1688.8	1560.4	1502.5	1476.8	1472.5	1468.2
12.5°	3110.0	2894.7	2431.7	1950.7	1635.5	1485.4	1440.6	1436.9	1444.0	1454.4	1454.4
15°	3139.9	2859.5	2255.8	1714.9	1463.5	1410.7	1419.8	1440.6	1460.2	1476.3	1478.7
17.5°	3161.8	2816.3	2066.6	1526.2	1371.7	1386.0	1418.4	1447.8	1467.7	1483.5	1484.9
20°	3177.4	2749.2	1864.7	1382.2	1319.0	1363.2	1403.6	1429.7	1443.5	1459.2	1461.6
22.5°	3169.4	2659.4	1685.4	1279.1	1276.2	1329.9	1368.4	1399.8	1389.3	1374.1	1384.1
25°	3130.4	2535.8	1501.0	1202.1	1231.0	1285.3	1332.8	1311.9	1276.7	1270.1	1273.8
27.5°	3061.0	2378.0	1330.4	1130.8	1178.8	1243.9	1241.0	1220.1	1207.8	1199.2	1204.4
30°	2986.4	2206.8	1181.1	1068.5	1120.7	1174.5	1163.6	1163.1	1150.7	1137.0	1143.6
32.5°	2912.7	2034.8	1062.8	1017.2	1077.1	1084.2	1108.0	1115.1	1090.8	1061.9	1059.9
35°	2848.6	1872.2	973.0	970.6	1024.3	1025.3	1059.9	1049.9	989.6	959.7	959.7
37.5°	2800.5	1710.1	904.5	928.8	954.9	979.6	997.2	955.9	945.9	929.2	928.8
40°	2779.6	1567.6	861.8	896.9	905.9	937.3	892.1	908.4	913.1	904.5	904.5
42.5°	2757.8	1443.5	824.7	872.7	871.3	867.0	844.2	865.0	884.0	884.6	883.1
45°	2735.9	1336.6	791.9	820.9	840.8	794.7	799.0	821.3	848.0	857.5	857.5
47.5°	2711.6	1252.0	761.9	766.2	797.1	766.2	762.8	780.0	811.4	826.6	829.9
50°	2658.5	1175.9	727.7	718.2	726.8	737.2	740.0	748.1	782.9	807.1	812.8
52.5°	2584.8	1108.0	683.9	674.0	674.0	713.5	726.8	729.1	758.6	787.6	793.3
55°	2523.5	1064.7	638.9	636.9	635.0	688.2	711.1	714.9	735.3	758.1	761.0
57°	2527.7	1061.4	604.1	606.1	605.5	662.6	696.3	704.4	714.9	734.3	737.7
57.5°	2530.1	1063.7	596.5	597.5	597.0	655.4	692.0	701.1	709.2	729.6	732.9
60°	2565.8	1069.9	565.6	555.2	557.5	617.4	667.8	679.2	684.4	711.5	715.8
62.5°	2512.9	1042.4	540.9	515.7	515.7	577.5	634.1	652.1	660.2	696.8	704.0
65°	2359.9	964.9	511.9	471.0	475.7	537.6	593.7	623.1	635.5	681.1	688.7
67.5°	2123.6	875.0	481.1	431.1	435.9	495.8	551.8	583.7	603.2	664.0	670.2
70°	1816.1	765.3	439.2	388.8	394.5	450.1	502.4	538.5	567.5	647.9	649.8
72.5°	1338.9	627.4	380.7	342.3	348.4	396.8	452.5	494.3	533.3	607.5	606.5
75°	796.1	490.6	316.1	295.2	299.5	344.6	407.4	458.2	516.6	591.7	600.8
77.5°	482.9	369.4	257.6	247.1	252.4	298.5	375.0	429.2	509.6	558.0	555.2
80°	291.9	263.8	205.8	199.2	204.4	255.2	347.0	407.4	445.4	476.8	476.8
82.5°	152.6	161.2	151.2	145.9	153.1	207.3	315.6	355.6	393.6	338.0	315.6
85°	62.2	84.1	91.8	91.3	95.6	143.6	272.4	304.2	253.8	241.0	246.7
87.5°	21.0	35.7	44.7	38.5	40.4	90.3	188.7	146.9	174.5	121.7	115.5
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)