

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: P191435

Luminaire Tested: **GLEON-AF-07-LED-E1-T3-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191435
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-T3-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28382.8 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

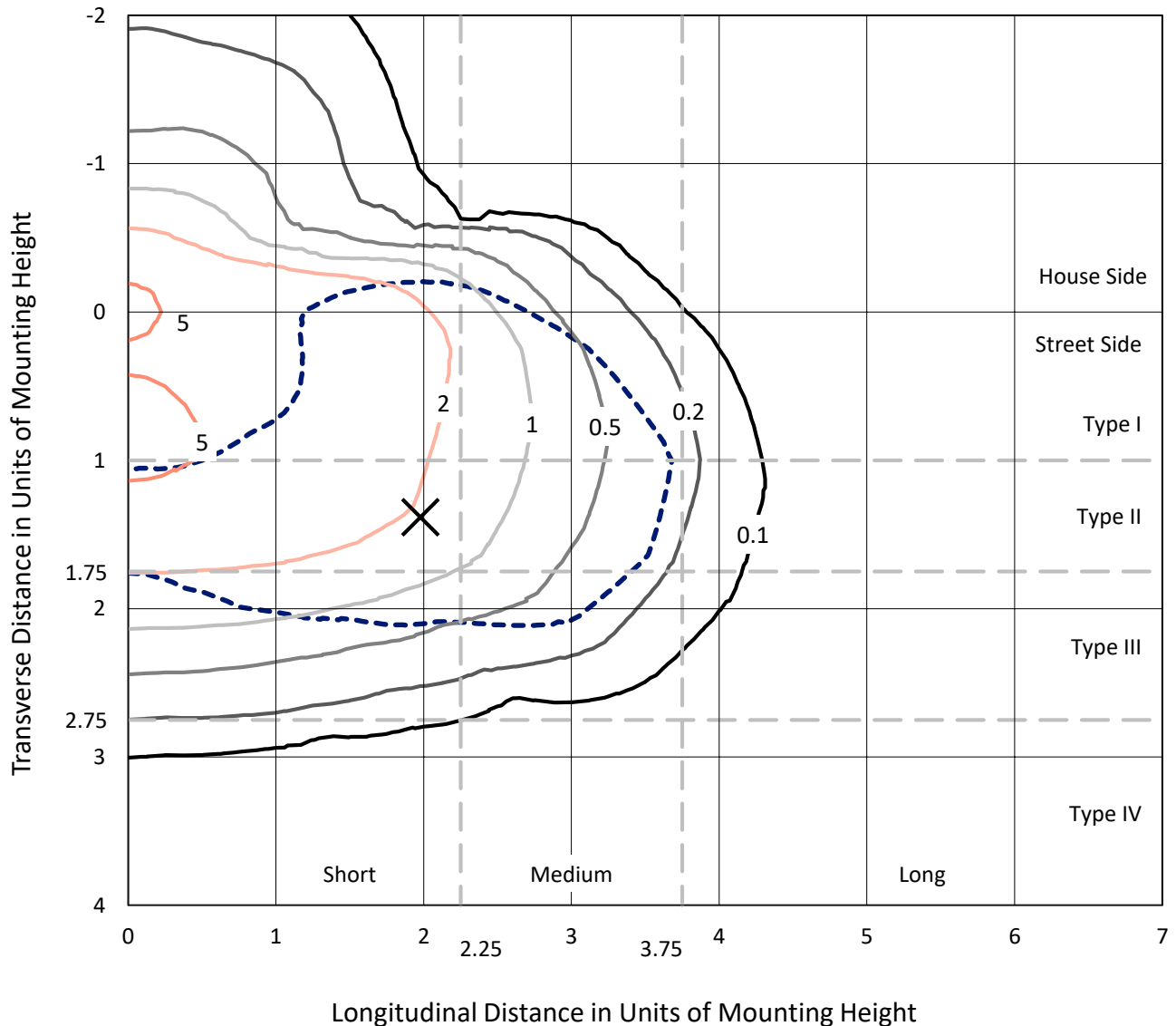
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

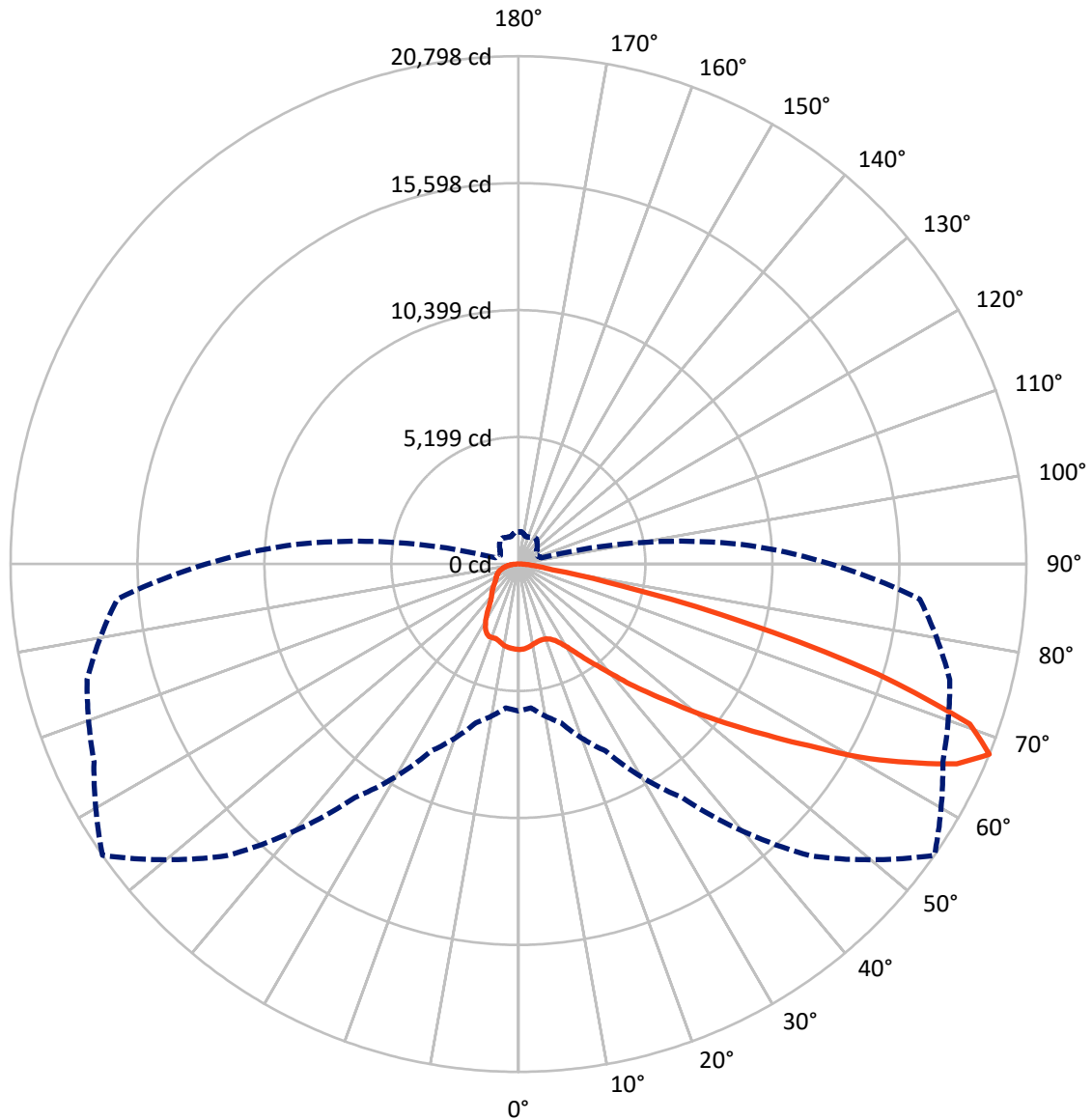
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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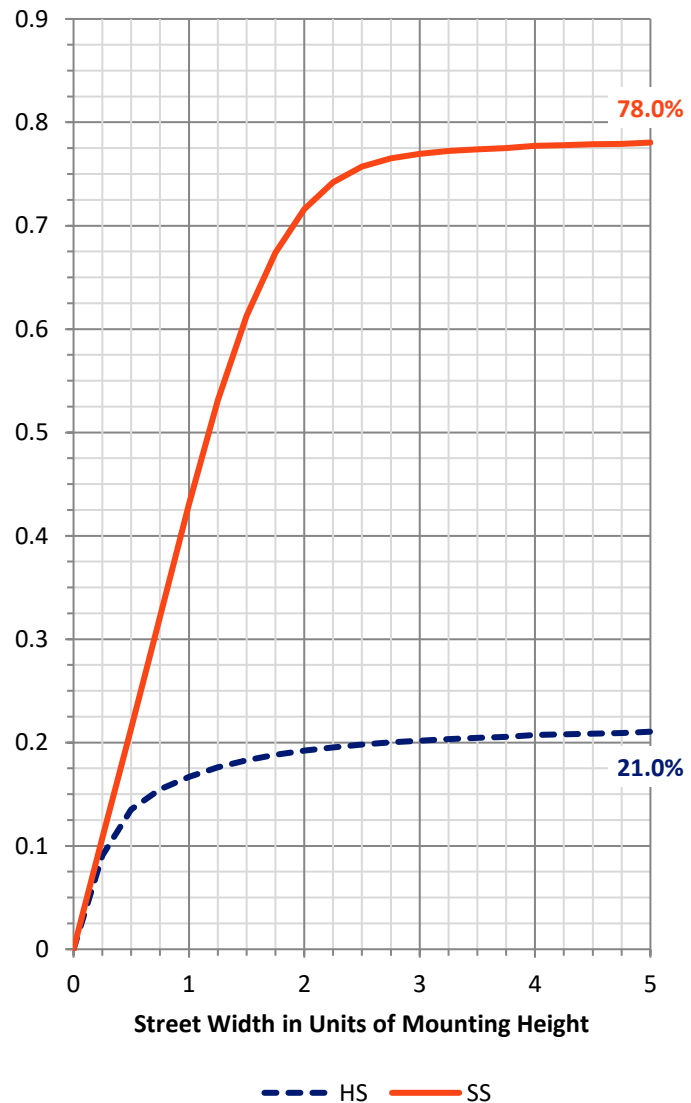
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6131.3	0.0	6131.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	22251.5	0.0	22251.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	28382.8	0.0	28382.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.7	1.2
10°-20°	925.2	3.3
20°-30°	1549.8	5.5
30°-40°	2548.6	9.0
40°-50°	4290.1	15.1
50°-60°	6752.2	23.8
60°-70°	8058.1	28.4
70°-80°	3460.3	12.2
80°-90°	471.8	1.7
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°	28382.8	100.0
0°-180°	28382.8	100.0



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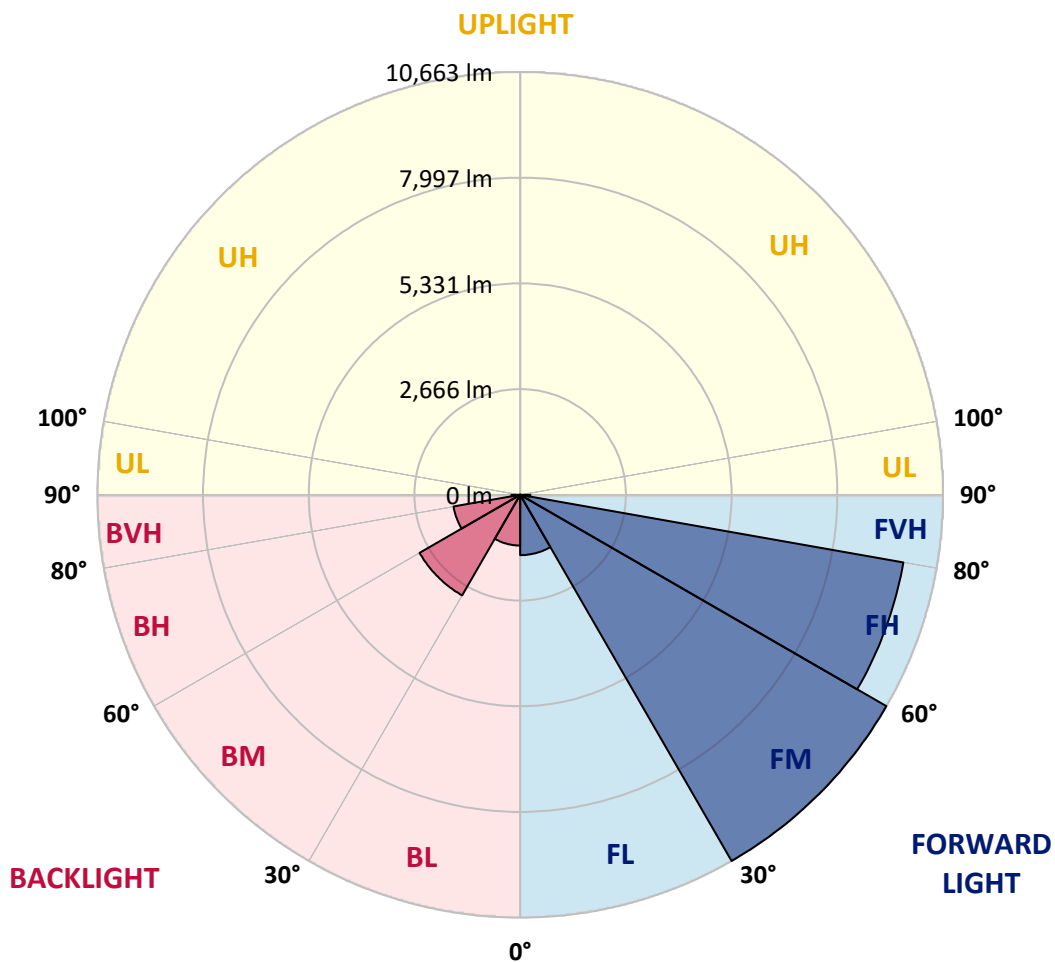
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1521.4	5.4			
FM	(30°-60°)	10662.7	37.6			
FH	(60°-80°)	9812.1	34.6			G4/12000
FVH	(80°-90°)	255.4	0.9			G3/500
BL	(0°-30°)	1280.3	4.5	B3/2500		
BM	(30°-60°)	2928.2	10.3	B3/5000		
BH	(60°-80°)	1706.3	6.0	B3/2500		G3/2500
BVH	(80°-90°)	216.4	0.8			G2/225
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°	65°	75°	85°	90°
0°	3499.9	3499.9	3499.9	3499.9	3499.9	3499.9	3499.9	3499.9	3499.9	3499.9	3499.9
2.5°	3469.7	3471.1	3473.8	3484.8	3494.4	3491.6	3493.1	3487.5	3486.2	3477.9	3486.2
5°	3425.9	3430.0	3431.4	3449.2	3460.1	3462.9	3458.8	3451.9	3443.7	3435.5	3439.6
7.5°	3325.8	3336.8	3338.1	3362.8	3380.6	3404.0	3405.3	3406.7	3402.5	3397.1	3405.3
10°	3262.7	3265.5	3264.1	3281.9	3295.6	3321.7	3336.8	3362.8	3373.8	3376.6	3382.0
12.5°	3258.6	3255.8	3251.8	3251.8	3247.7	3258.6	3286.0	3323.1	3349.1	3357.3	3364.2
15°	3302.5	3301.2	3287.5	3266.9	3240.8	3232.6	3255.8	3297.0	3331.2	3349.1	3356.0
17.5°	3401.2	3393.0	3371.0	3324.4	3268.2	3246.3	3249.0	3283.3	3323.1	3346.4	3353.2
20°	3582.2	3582.2	3535.5	3447.9	3347.7	3295.6	3271.0	3291.5	3329.9	3361.4	3371.0
22.5°	3894.7	3897.4	3819.3	3675.4	3506.8	3395.7	3334.0	3329.9	3375.1	3410.8	3421.8
25°	4337.5	4326.6	4216.9	4011.3	3754.9	3571.2	3464.2	3439.6	3477.9	3517.7	3531.4
27.5°	4853.0	4813.2	4683.0	4434.9	4103.1	3834.4	3669.9	3630.1	3667.2	3712.4	3726.1
30°	5362.9	5321.8	5166.9	4895.5	4526.8	4186.7	3950.9	3886.5	3938.6	4003.0	4011.3
32.5°	5873.0	5873.0	5700.2	5383.5	4981.9	4607.6	4325.2	4248.4	4334.8	4412.9	4430.7
35°	6483.0	6485.7	6318.5	5937.4	5505.5	5109.3	4798.2	4742.0	4872.2	4927.0	4969.5
37.5°	7232.9	7247.9	7032.7	6572.0	6099.1	5682.4	5312.3	5235.5	5365.7	5515.1	5652.2
40°	8043.1	8062.3	7825.1	7257.5	6784.6	6348.6	5948.4	5809.8	6026.5	6311.6	6488.5
42.5°	8816.3	8914.9	8686.0	8102.0	7593.5	7142.3	6736.6	6535.1	6806.5	7237.0	7390.5
45°	9933.6	10004.9	9605.9	9076.7	8598.3	8093.8	7556.4	7343.9	7723.7	8266.6	8298.1
47.5°	10678.0	10624.5	10421.6	10092.5	9789.6	9318.1	8509.2	8276.1	8780.6	9419.4	9242.6
50°	11074.2	11090.6	11063.2	11082.3	11093.3	10797.2	9677.2	9357.7	9959.6	10731.4	10324.2
52.5°	11444.3	11334.6	11425.1	11874.7	12417.6	12307.9	10948.0	10614.9	11223.6	12187.3	11467.6
55°	11436.1	11268.8	11563.5	12357.2	13534.9	13661.0	12375.1	11991.2	12560.2	13748.8	12679.5
57.5°	11031.6	11039.9	11493.7	12532.8	14313.5	14933.2	14031.2	13455.4	13977.7	15330.8	13785.8
60°	10475.0	10550.4	11204.4	12503.9	14937.3	15976.4	16062.9	15033.3	15366.5	16768.8	14701.5
62.5°	9577.1	9656.7	10558.7	12205.1	14842.7	16981.4	17899.8	16823.7	16818.2	17640.8	14970.3
65°	8161.0	8137.7	9084.9	11087.9	14049.0	17724.4	19724.5	18371.5	17912.2	17654.5	14430.1
67.5°	6018.2	5914.1	6727.0	8444.8	11677.3	16892.2	20797.9	19177.6	18285.0	16493.3	12779.5
70°	3122.9	3018.7	3676.8	4931.1	7679.8	13184.0	19609.4	18760.8	17461.2	13825.5	10011.7
72.5°	1335.3	1317.5	1584.8	2163.2	3715.2	7604.4	15376.0	16238.3	14982.5	10300.9	6883.3
75°	897.9	892.4	992.6	1179.0	1671.1	3085.9	9622.4	11526.5	10961.7	6387.0	3871.5
77.5°	704.6	697.8	756.8	847.2	1083.0	1217.3	4270.3	6188.2	5727.6	2780.2	1694.4
80°	551.1	545.6	582.7	632.0	778.7	767.7	1405.1	2462.1	1905.6	1065.2	823.9
82.5°	434.5	434.5	464.7	466.1	552.5	523.6	733.5	1084.4	951.4	621.0	504.5
85°	397.5	397.5	429.1	348.2	360.6	330.4	455.1	642.9	603.2	255.0	219.3
87.5°	200.2	194.7	360.6	308.4	196.0	175.4	222.1	311.2	334.5	141.2	109.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3499.9	3499.9	3499.9	3499.9	3499.9	3499.9	3499.9	3499.9	3499.9	3499.9
2.5°	3483.5	3482.1	3484.8	3486.2	3497.2	3512.2	3519.1	3528.7	3534.2	3531.4
5°	3442.3	3445.1	3456.0	3464.2	3483.5	3508.1	3521.8	3532.8	3542.4	3538.3
7.5°	3408.1	3414.9	3431.4	3438.2	3449.2	3456.0	3454.7	3458.8	3467.0	3457.4
10°	3388.8	3397.1	3409.4	3399.9	3373.8	3336.8	3302.5	3284.7	3290.1	3283.3
12.5°	3369.7	3380.6	3371.0	3325.8	3253.2	3205.2	3179.1	3181.9	3194.2	3196.9
15°	3358.8	3362.8	3321.7	3236.7	3162.7	3155.8	3169.5	3166.7	3168.2	3168.2
17.5°	3358.8	3347.7	3271.0	3186.0	3154.5	3142.1	3099.6	3046.1	3022.8	3014.6
20°	3376.6	3347.7	3254.5	3198.4	3129.7	3024.3	2911.8	2813.1	2769.2	2756.9
22.5°	3430.0	3380.6	3301.2	3203.8	3009.1	2832.2	2654.0	2536.2	2456.6	2442.9
25°	3538.3	3483.5	3393.0	3131.2	2817.2	2564.9	2362.1	2230.4	2151.0	2140.0
27.5°	3727.4	3691.8	3442.3	2970.8	2562.2	2292.1	2104.3	2002.8	1943.9	1939.8
30°	4012.6	3994.8	3417.7	2733.5	2248.2	2027.6	1937.1	1878.1	1834.3	1832.9
32.5°	4467.7	4323.8	3336.8	2444.3	1961.7	1839.8	1802.7	1767.0	1732.8	1732.8
35°	5053.2	4589.8	3183.2	2134.5	1787.6	1735.5	1689.0	1632.7	1587.5	1584.8
37.5°	5741.3	4754.3	2907.6	1885.0	1705.4	1665.7	1597.1	1513.5	1434.0	1420.3
40°	6436.4	4803.7	2519.7	1731.4	1653.3	1595.7	1512.1	1413.4	1336.6	1332.5
42.5°	7073.8	4709.1	2108.4	1625.9	1601.2	1524.4	1436.7	1349.0	1288.6	1287.3
45°	7608.5	4463.6	1763.0	1525.8	1546.4	1460.1	1381.9	1310.6	1264.0	1254.3
47.5°	8111.6	4116.8	1520.3	1420.3	1491.6	1424.4	1358.6	1291.4	1246.2	1239.3
50°	8695.6	3742.6	1350.3	1317.5	1443.6	1412.0	1377.7	1307.8	1232.5	1224.2
52.5°	9403.0	3419.0	1217.3	1226.9	1406.6	1428.4	1427.1	1354.5	1222.8	1211.9
55°	10192.7	3059.9	1117.3	1153.0	1391.4	1458.6	1439.5	1398.3	1231.0	1214.7
57.5°	10969.9	2640.3	1047.4	1096.7	1369.5	1455.9	1380.5	1321.6	1250.3	1226.9
60°	11552.6	2076.9	993.9	1047.4	1321.6	1410.6	1316.0	1237.9	1246.2	1228.4
62.5°	11591.0	1605.3	929.5	1004.8	1248.9	1365.4	1273.6	1200.9	1264.0	1247.5
65°	10909.7	1213.2	867.8	954.1	1170.8	1336.6	1232.5	1180.4	1301.0	1283.2
67.5°	9185.1	976.1	815.7	902.0	1092.6	1276.3	1195.4	1161.2	1333.9	1302.3
70°	6631.1	832.2	765.0	839.0	1022.6	1207.8	1162.5	1126.9	1244.7	1195.4
72.5°	4082.5	721.1	707.4	755.3	969.2	1136.5	1113.2	1062.4	1121.4	1081.7
75°	2038.5	625.1	642.9	673.1	893.9	1055.6	1030.9	980.2	988.4	980.2
77.5°	976.1	534.7	567.5	590.9	796.5	963.7	937.7	885.6	876.1	877.4
80°	618.3	446.9	478.4	494.9	711.5	856.8	830.7	778.7	888.3	823.9
82.5°	386.6	363.2	371.5	401.7	619.6	745.7	711.5	664.9	800.6	633.3
85°	213.9	253.6	264.5	290.6	477.1	623.8	589.5	530.5	475.7	467.5
87.5°	127.5	150.8	154.9	174.1	320.8	451.0	399.0	378.4	313.9	312.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)