

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: P651498

Luminaire Tested: **GALN-SA7D-840-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-840-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40890.3 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

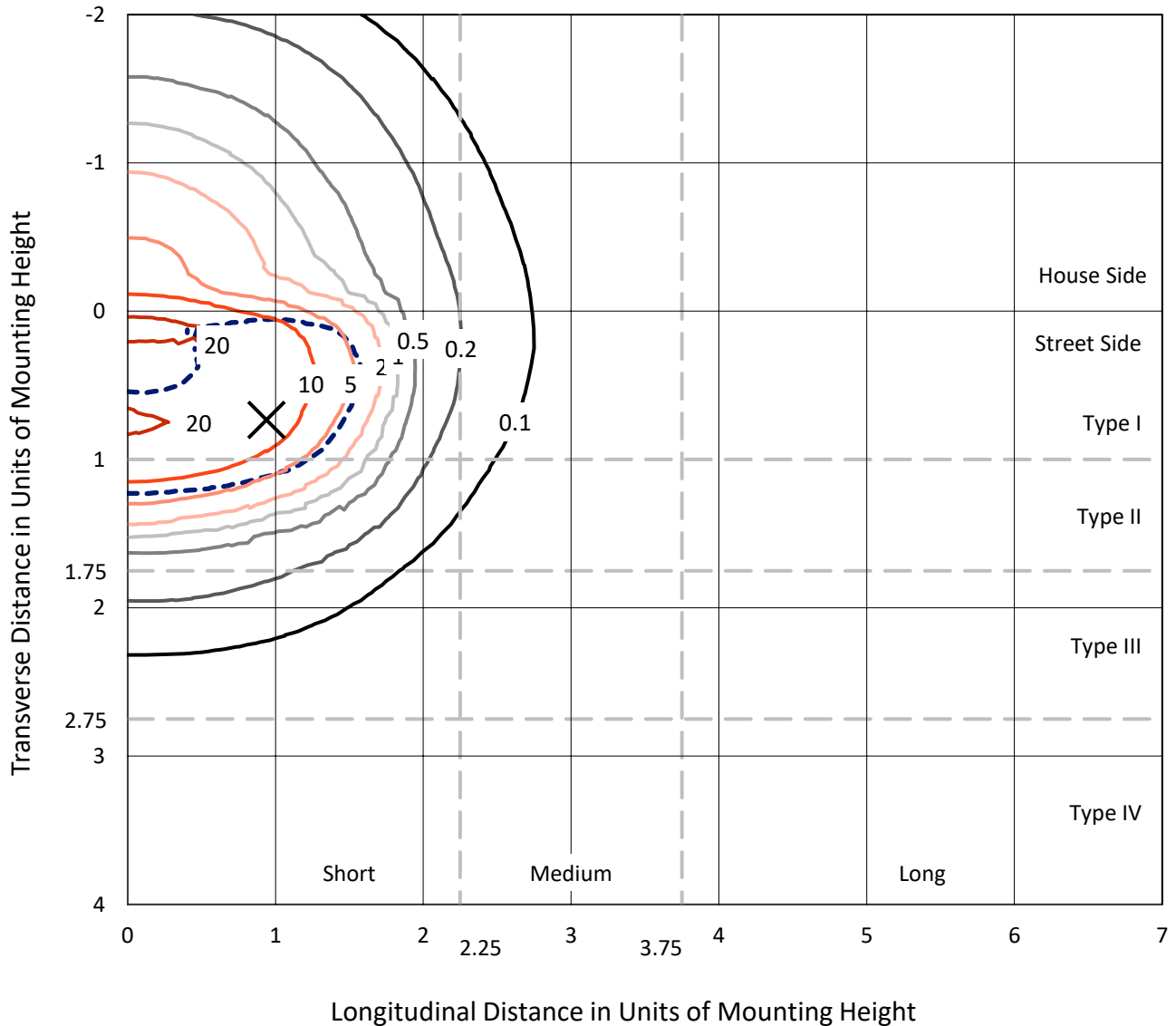
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

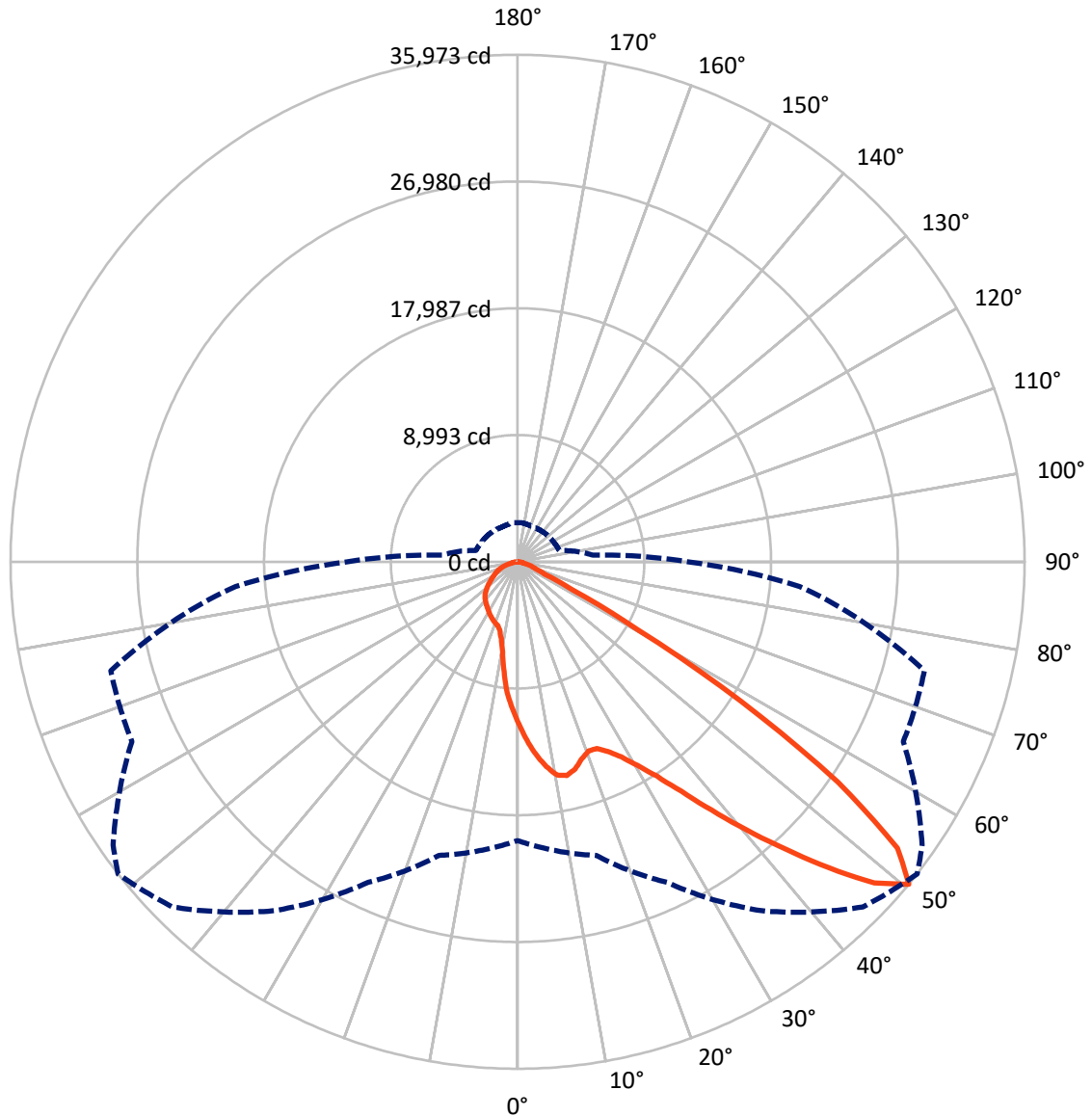
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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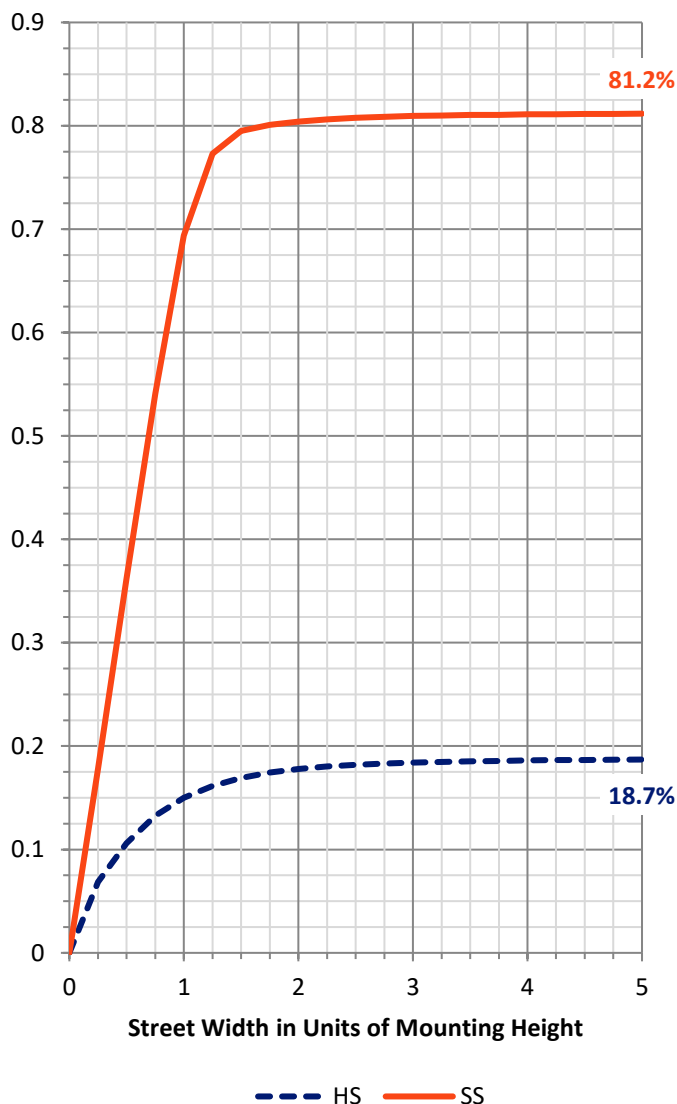
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7686.4	0.0	7686.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	33203.9	0.0	33203.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	40890.3	0.0	40890.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1062.4	2.6
10°-20°	2847.4	7.0
20°-30°	4796.4	11.7
30°-40°	8048.7	19.7
40°-50°	12312.6	30.1
50°-60°	8976.8	22.0
60°-70°	1997.8	4.9
70°-80°	720.6	1.8
80°-90°	127.5	0.3
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°	40890.3	100.0
0°-180°	40890.3	100.0

Coefficient of Utilization

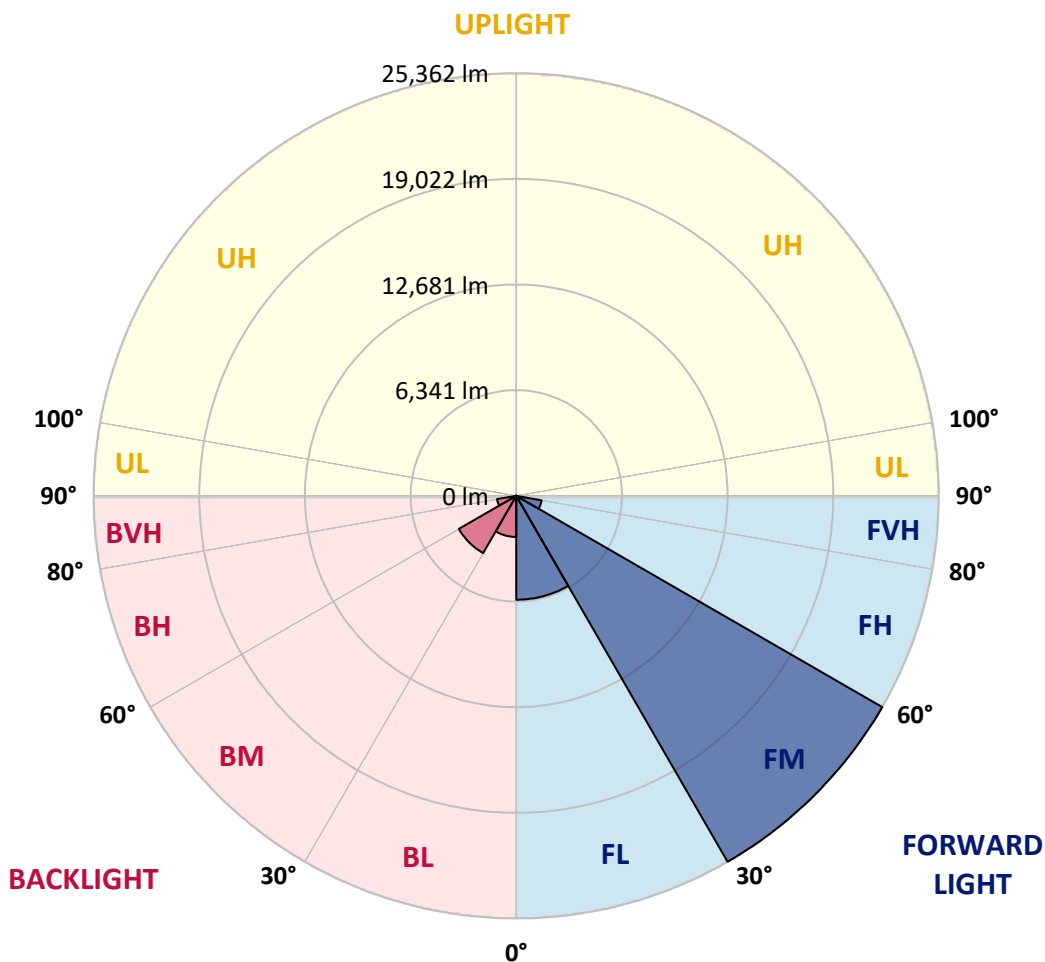


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6237.2	15.3			
FM (30°-60°)	25362.2	62.0			
FH (60°-80°)	1547.3	3.8			G1/1800
FVH (80°-90°)	57.2	0.1			G1/100
BL (0°-30°)	2469.0	6.0	B3/2500		
BM (30°-60°)	3975.9	9.7	B3/5000		
BH (60°-80°)	1171.1	2.9	B3/2500		G3/2500
BVH (80°-90°)	70.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	11526.3	11526.3	11526.3	11526.3	11526.3	11526.3	11526.3	11526.3	11526.3	11526.3	11526.3
2.5°	13571.4	13310.2	13339.8	13152.5	12950.5	12891.3	12684.3	12487.3	12339.4	12024.0	11733.3
5°	14832.9	14754.0	14635.8	14487.9	14335.2	13960.7	13748.8	13502.3	12960.3	12472.5	11989.5
7.5°	15015.2	15000.4	15064.5	15064.5	15118.7	14975.8	14675.2	14502.7	13926.1	13132.8	12235.9
10°	13734.0	13778.4	14088.8	14492.9	15054.7	15444.0	15394.7	15350.4	14719.5	13635.4	12526.6
12.5°	12713.9	12615.3	12797.7	13142.6	13985.3	14926.5	15562.2	15567.2	15404.5	14438.6	12738.5
15°	12137.3	12206.4	12255.6	12418.2	13053.9	14143.0	15261.6	15591.8	16306.3	15005.4	13073.6
17.5°	12506.9	12275.3	12265.5	12304.9	12630.1	13448.2	14704.8	15271.5	16799.1	15734.7	13487.5
20°	12989.8	12985.0	12846.9	12797.7	12792.8	13522.1	14340.1	15108.8	17060.3	16680.8	13906.4
22.5°	13837.5	13837.5	13610.7	13502.3	13270.7	13867.0	14389.3	14911.8	17494.0	17331.3	14108.5
25°	15256.7	15025.1	14635.8	14369.7	14236.6	14448.5	14911.8	15379.9	17873.4	18021.2	14527.3
27.5°	16567.5	16202.9	16010.6	15552.4	15375.0	15251.8	15675.6	16148.6	18316.9	19095.5	14754.0
30°	18055.7	17991.7	17646.7	17055.4	16616.8	16390.1	16779.4	17247.6	19130.0	20194.4	15276.4
32.5°	20716.8	20135.3	19667.1	18942.8	18228.2	17745.3	18129.6	18440.1	20480.2	21342.6	15848.1
35°	23589.7	23402.4	22594.3	21288.4	20194.4	19760.7	19987.5	20219.1	22052.2	23096.9	16809.0
37.5°	26413.4	26157.1	25491.9	24393.0	23062.4	22180.4	22342.9	22614.0	23816.4	25462.3	17981.8
40°	28443.6	28128.3	27793.2	27630.6	26309.9	25102.6	25008.9	25077.9	26201.5	27679.8	19282.8
42.5°	28591.5	28980.8	29084.3	29739.7	29429.2	28438.8	27862.2	27877.0	28478.2	29872.7	20598.5
45°	28281.1	27921.3	28685.2	30474.0	31499.0	31962.1	30991.4	30868.1	29887.5	31144.2	21253.9
47.5°	25023.7	25122.3	26413.4	29242.0	32203.7	34273.4	34046.6	33637.6	30641.5	31099.8	21150.4
50°	19780.5	20376.8	21574.2	25097.6	30232.5	34638.0	35973.4	35027.3	30193.1	29877.7	20095.9
52.5°	13172.2	13418.6	14207.0	18755.5	24309.2	30961.8	33755.9	33972.7	29779.1	28276.1	18760.4
55°	5864.1	5844.4	6953.2	9796.6	15251.8	23560.1	27581.3	28902.0	28187.4	26645.0	17459.4
57.5°	2483.6	2567.4	3020.8	4233.0	7500.2	14216.9	18686.5	19844.6	21677.7	21879.7	13393.9
60°	1680.4	1690.2	1813.4	2119.0	3139.0	6677.3	9801.5	11191.2	12502.0	12413.3	7106.0
62.5°	1320.7	1355.2	1448.8	1572.0	1862.7	3030.6	4385.8	5159.5	5243.2	4410.5	2695.6
65°	1128.5	1133.4	1227.0	1330.5	1458.6	1764.2	2114.0	2153.5	2178.1	2099.3	1981.0
67.5°	931.4	941.2	1015.2	1133.4	1251.7	1350.2	1448.8	1498.1	1611.4	1833.1	1803.6
70°	739.2	754.0	818.0	916.6	1025.0	1084.1	1207.3	1251.7	1355.2	1527.7	1596.6
72.5°	561.8	566.7	620.9	689.9	788.4	847.6	951.1	1000.4	1069.3	1217.2	1281.3
75°	404.1	418.9	458.3	492.8	507.5	547.0	645.6	699.8	798.3	862.4	867.3
77.5°	211.9	221.8	231.6	231.6	280.9	354.8	418.9	448.4	517.5	566.7	542.0
80°	83.8	88.7	113.4	152.7	197.1	256.3	300.6	315.4	374.5	404.1	418.9
82.5°	49.3	54.2	73.9	108.4	142.9	182.3	216.8	231.6	271.1	305.5	315.4
85°	24.6	29.6	44.3	69.0	93.6	113.4	108.4	103.5	103.5	98.6	103.5
87.5°	9.8	9.8	14.8	14.8	14.8	19.7	24.6	24.6	24.6	29.6	29.6
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°	11526.3	11526.3	11526.3	11526.3	11526.3	11526.3	11526.3	11526.3	11526.3	11526.3	11526.3
2.5°	11541.0	11344.0	11161.6	10826.5	10461.9	10358.3	9934.6	9781.8	9673.4	9545.3	9505.8
5°	11600.2	11339.0	10752.6	10077.5	9540.4	8850.4	8397.0	7909.3	7554.5	7465.7	7441.1
7.5°	11723.4	11275.0	10264.7	9244.7	8145.8	7209.5	6495.0	6110.5	5770.5	5750.8	5716.4
10°	11861.4	11082.8	9732.6	8131.0	6726.6	5859.2	5430.5	5263.0	5179.2	5159.5	5149.6
12.5°	11974.7	11043.3	9136.3	7046.8	5721.2	5198.9	5070.8	5056.0	5090.5	5100.3	5120.1
15°	12024.0	10885.7	8416.8	6076.1	5095.5	4903.2	4957.4	5016.6	5041.2	5105.3	5056.0
17.5°	12117.6	10683.6	7529.8	5307.3	4745.5	4780.0	4873.7	4942.6	4982.1	5026.4	4962.4
20°	12166.9	10501.3	6697.0	4849.0	4622.3	4686.4	4814.6	4868.7	4918.0	4937.8	4863.8
22.5°	12122.6	10126.7	5962.7	4479.4	4504.1	4587.8	4701.2	4760.3	4730.8	4651.9	4607.6
25°	12004.3	9599.5	5198.9	4242.9	4336.5	4484.4	4573.0	4528.7	4474.5	4430.1	4415.3
27.5°	11999.4	8954.0	4646.9	4026.0	4193.6	4395.7	4366.1	4326.7	4351.3	4316.9	4277.4
30°	12024.0	8328.1	4193.6	3902.9	4090.1	4188.7	4223.2	4183.7	4213.3	4149.2	4169.0
32.5°	11895.9	7717.0	3898.0	3759.9	3966.9	3962.0	4075.3	4104.9	4036.0	3902.9	3922.6
35°	11950.1	7224.3	3646.7	3695.9	3829.0	3829.0	3917.6	3883.1	3700.8	3622.0	3641.7
37.5°	12324.6	6741.3	3523.5	3607.2	3695.9	3735.3	3705.8	3557.9	3513.5	3513.5	3523.5
40°	12679.4	6327.3	3449.5	3587.5	3572.7	3597.4	3380.5	3395.3	3395.3	3400.2	3375.6
42.5°	12994.8	6046.5	3390.4	3469.2	3493.9	3365.8	3232.7	3217.9	3252.4	3247.4	3227.8
45°	13108.2	5814.9	3306.6	3336.2	3355.8	3144.0	3079.9	3050.4	3089.7	3104.6	3124.2
47.5°	12674.5	5622.7	3213.0	3153.8	3114.4	2976.5	2892.6	2838.5	2887.7	2971.5	2991.2
50°	12117.6	5371.4	3065.1	2951.8	2868.0	2808.9	2749.7	2695.6	2730.1	2789.2	2774.4
52.5°	11294.7	4977.1	2877.9	2759.6	2616.7	2631.5	2577.2	2547.7	2567.4	2567.4	2552.6
55°	10121.9	4090.1	2562.5	2478.7	2360.4	2399.9	2409.7	2370.3	2330.9	2365.4	2335.8
57.5°	6908.9	2887.7	2286.5	2286.5	2168.3	2222.5	2217.5	2123.9	2030.3	2040.1	2020.4
60°	3996.5	2301.3	2109.1	2089.4	1966.3	2010.6	2020.4	1956.3	1813.4	1823.3	1803.6
62.5°	2271.7	1966.3	1843.1	1813.4	1788.8	1828.2	1828.2	1744.5	1621.3	1631.1	1611.4
65°	1931.7	1823.3	1645.9	1641.0	1631.1	1641.0	1601.5	1512.9	1404.5	1360.1	1365.0
67.5°	1754.3	1685.4	1512.9	1468.5	1439.0	1434.0	1360.1	1276.3	1227.0	1187.6	1182.7
70°	1537.5	1483.3	1355.2	1296.1	1266.5	1197.5	1123.6	1069.3	1000.4	980.6	1000.4
72.5°	1217.2	1212.2	1163.0	1098.9	1034.9	980.6	916.6	842.7	778.6	763.8	729.3
75°	842.7	852.5	862.4	852.5	798.3	729.3	655.4	596.3	517.5	473.1	463.2
77.5°	551.9	566.7	581.5	561.8	527.3	463.2	413.9	340.0	280.9	246.4	241.5
80°	404.1	423.8	433.6	418.9	379.5	330.2	275.9	216.8	172.5	142.9	142.9
82.5°	310.5	330.2	340.0	315.4	275.9	236.6	197.1	152.7	118.2	93.6	88.7
85°	108.4	103.5	123.2	128.1	152.7	142.9	118.2	88.7	69.0	49.3	44.3
87.5°	29.6	29.6	34.5	34.5	29.6	24.6	24.6	24.6	19.7	14.8	14.8
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)