

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: P647650

Luminaire Tested: **GALN-SA9D-835-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-835-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55449.7 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

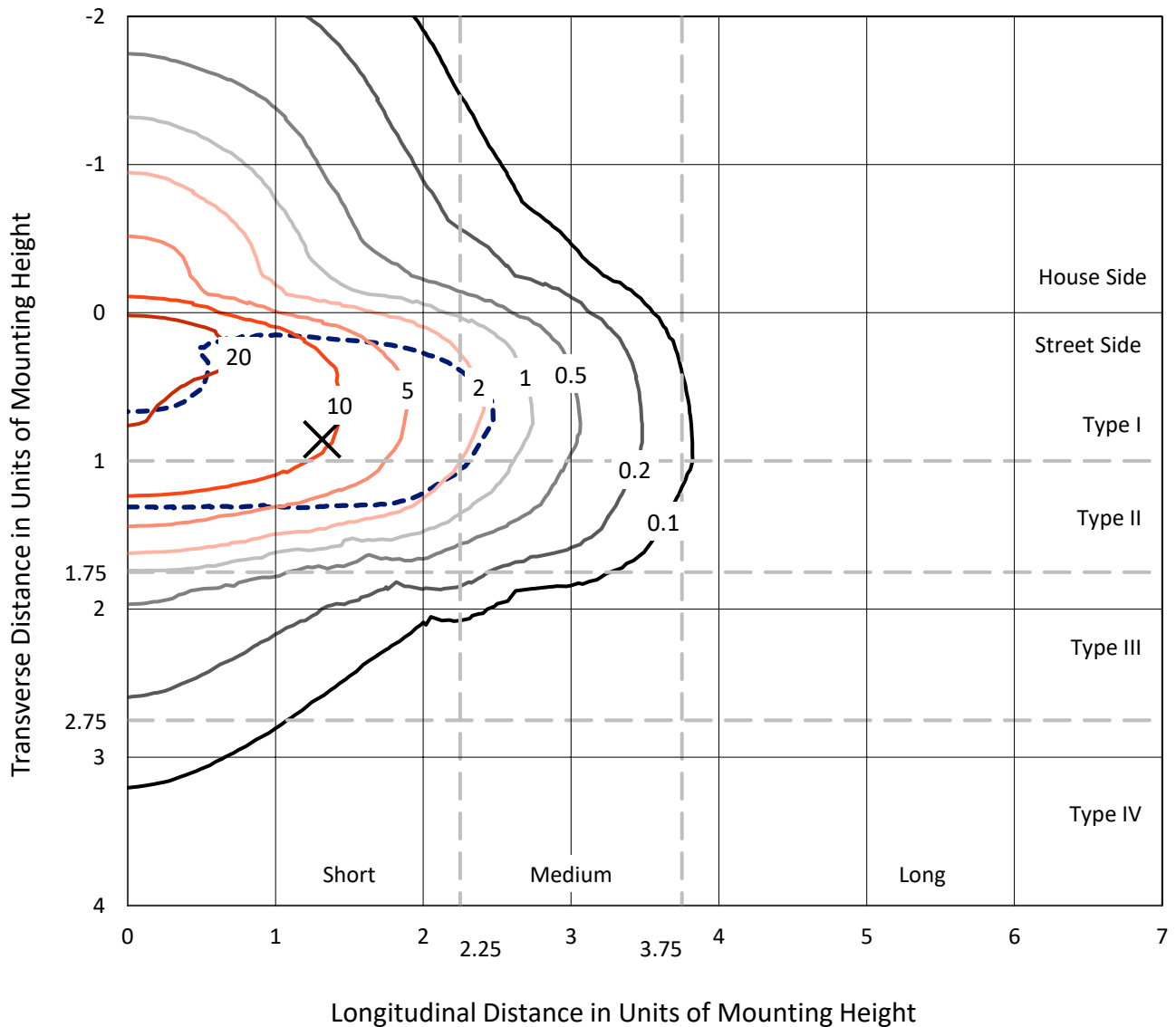
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

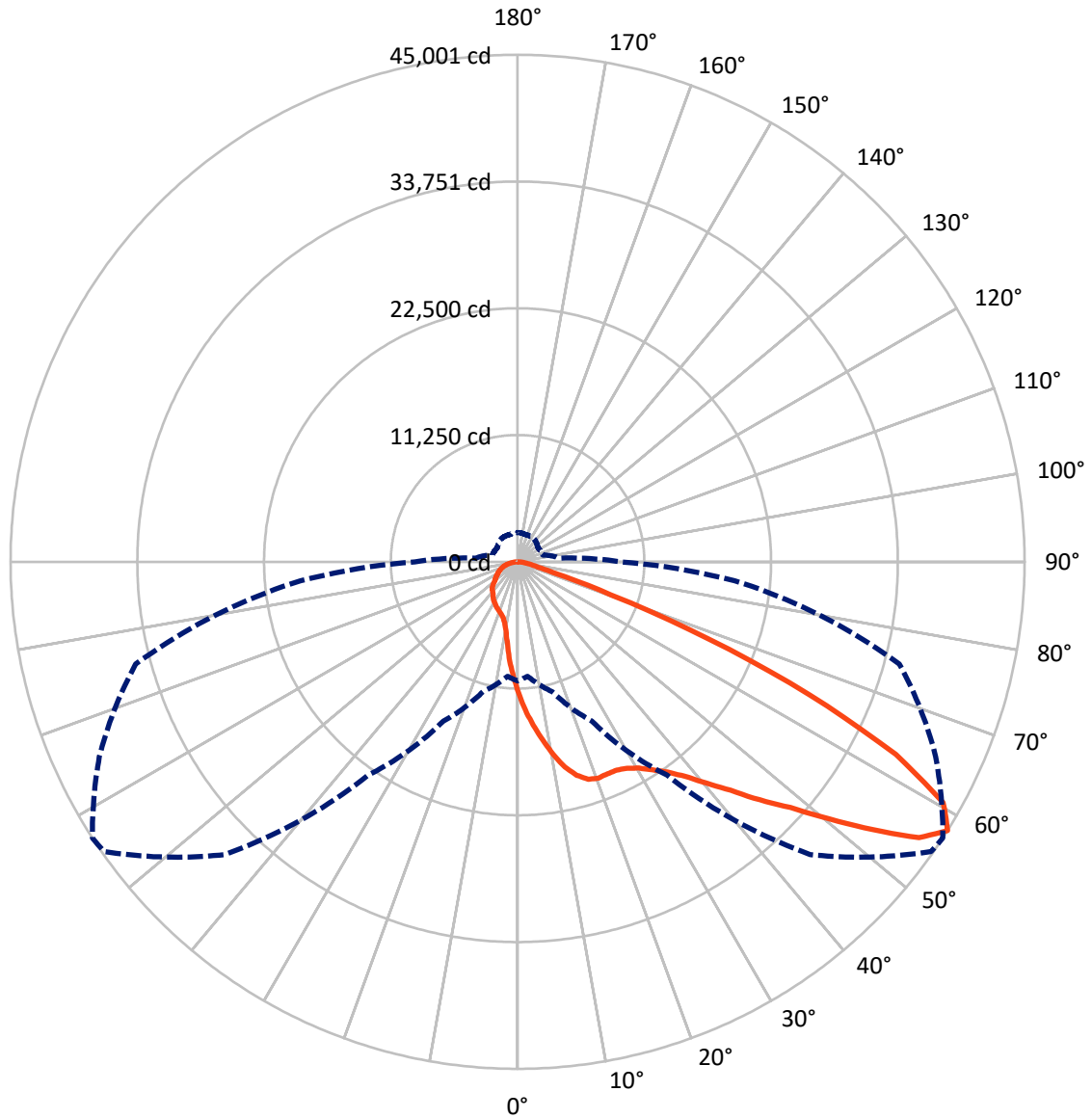
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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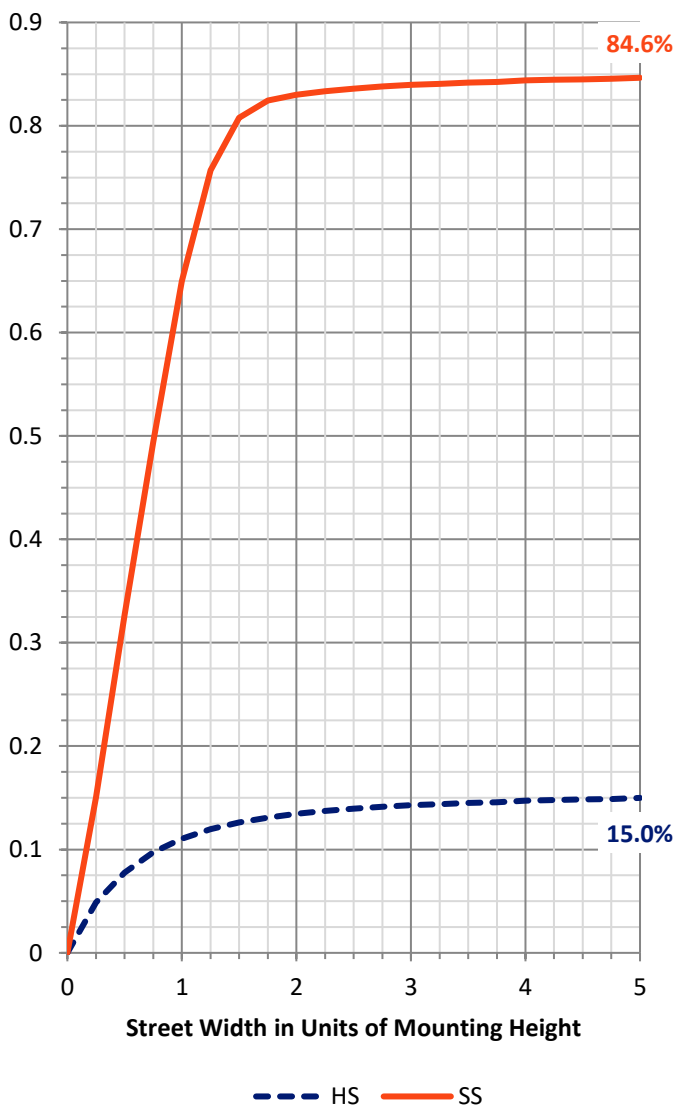
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8432.3	0.0	8432.3
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	47017.4	0.0	47017.4
	% Fixture	84.8	0.0	84.8
Total	Lumens	55449.7	0.0	55449.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1119.6	2.0
10°-20°	3299.6	6.0
20°-30°	5479.0	9.9
30°-40°	8253.0	14.9
40°-50°	12391.0	22.3
50°-60°	13888.8	25.0
60°-70°	8128.4	14.7
70°-80°	2404.3	4.3
80°-90°	486.0	0.9
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°	55449.7	100.0
0°-180°	55449.7	100.0

Coefficient of Utilization



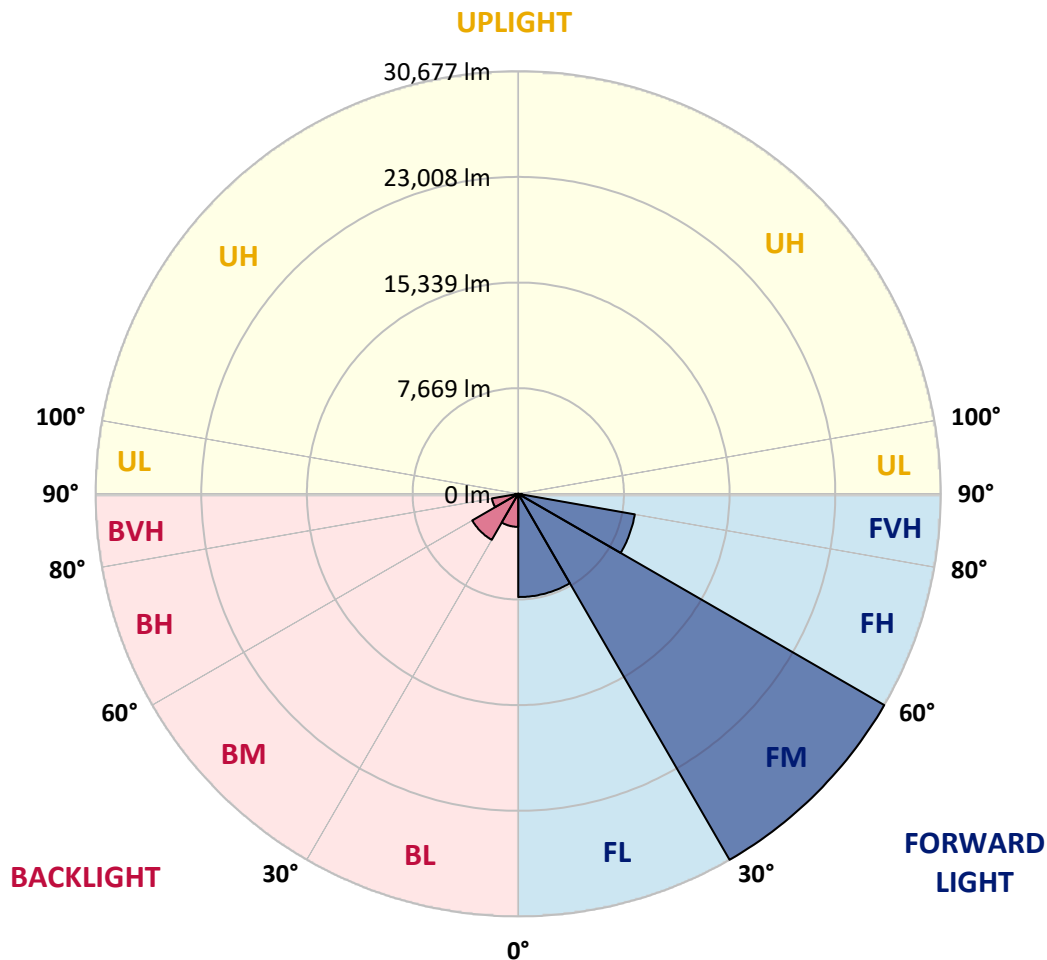
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7495.5	13.5			
FM (30°-60°)	30677.2	55.3			
FH (60°-80°)	8592.5	15.5			G4/12000
FVH (80°-90°)	252.1	0.5			G3/500
BL (0°-30°)	2402.7	4.3	B3/2500		
BM (30°-60°)	3855.6	7.0	B3/5000		
BH (60°-80°)	1940.2	3.5	B3/2500		G3/2500
BVH (80°-90°)	233.8	0.4			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	11649.3	11649.3	11649.3	11649.3	11649.3	11649.3	11649.3	11649.3	11649.3	11649.3	11649.3
2.5°	14475.2	14317.3	14192.9	14083.7	13941.0	13555.5	13170.0	13164.0	12857.4	12383.8	11898.2
5°	16833.6	16621.1	16648.5	16308.5	15968.5	15410.1	14593.6	14551.0	13898.5	13012.2	12110.7
7.5°	18369.4	18372.5	18287.5	18093.3	17725.9	17091.6	16165.8	15956.4	15048.9	13704.2	12353.5
10°	18290.5	18372.5	18515.1	18682.1	18794.3	18481.7	17637.9	17383.0	16202.2	14542.0	12623.7
12.5°	17240.3	17367.8	17571.1	17990.1	18666.9	19182.9	18894.5	18688.1	17537.8	15376.6	12921.1
15°	16584.7	16660.6	16772.9	17055.1	17783.7	19019.0	19765.7	19656.4	18797.4	16320.6	13255.0
17.5°	16384.4	16460.2	16496.6	16669.7	17188.7	18454.4	20108.6	20302.9	19914.4	17188.7	13591.9
20°	16584.7	16621.1	16621.1	16724.3	17131.0	18123.6	20093.4	20485.0	20831.0	18229.8	13907.6
22.5°	17109.8	17125.0	17103.7	17140.2	17443.7	18214.6	19950.8	20436.5	21571.6	19113.0	14153.4
25°	17962.7	17987.0	17847.4	17762.4	17983.9	18615.3	20029.7	20475.9	22151.4	19956.9	14317.3
27.5°	18931.0	18961.3	18791.3	18594.1	18697.3	19110.1	20339.3	20739.9	22585.4	20788.6	14420.5
30°	20117.8	20129.9	19844.6	19607.8	19541.0	19847.6	20867.4	21240.8	23125.7	21768.9	14575.3
32.5°	21331.8	21422.9	21055.7	20721.8	20609.4	20703.5	21647.5	22008.7	23769.1	22822.2	14824.2
35°	22983.0	22998.2	22558.1	22151.4	21781.1	21902.5	22646.1	22907.1	24658.5	24039.3	15176.3
37.5°	25043.9	25183.6	24576.6	23817.8	23362.4	23186.4	23854.2	24139.5	25906.0	25532.7	15707.5
40°	27332.6	27384.2	26865.1	26391.6	25559.9	25050.0	25511.4	25821.0	27444.9	27314.3	16323.7
42.5°	28771.3	28883.6	28923.1	28874.5	28249.2	27393.3	27569.4	27715.0	29266.0	28986.8	16955.0
45°	29257.0	29423.9	29988.4	31184.3	31251.1	30407.3	29997.5	30137.1	31251.1	30674.4	17559.0
47.5°	28452.6	28737.9	29779.0	32231.5	34067.9	34131.6	32896.2	32589.6	33060.1	32073.6	17996.1
50°	26373.4	26434.2	28027.6	31578.9	35388.2	37691.9	36414.1	35843.5	34778.0	33108.7	18296.6
52.5°	23156.1	23225.8	24561.4	28546.7	34574.7	40180.8	40529.9	39510.0	36523.3	33913.1	18493.9
55°	17188.7	17592.4	19061.4	22913.2	30719.9	39947.1	43801.9	43222.1	38632.8	34550.4	18803.4
57.5°	10568.8	10198.5	11940.8	15589.1	23104.5	36735.9	44812.7	45000.8	40954.8	35084.7	19322.5
60°	4862.5	4935.3	5654.7	8040.4	14083.7	28737.9	42208.4	43398.2	42238.8	35066.4	19453.0
62.5°	3350.9	3284.1	3102.0	3530.0	6422.6	18175.2	35652.3	37667.6	39664.8	33976.8	18934.0
65°	2995.8	2929.0	2576.9	2458.5	2950.3	7922.1	25918.2	28461.7	33397.1	31226.8	17641.0
67.5°	2798.5	2707.5	2343.2	2112.5	2106.5	3153.6	15282.6	18345.1	24770.8	26400.7	15285.6
70°	2592.1	2519.3	2158.1	1903.1	1793.9	1982.0	6717.0	8793.2	16083.8	19025.0	11907.3
72.5°	2385.7	2300.8	1976.0	1702.8	1560.1	1484.3	2573.9	3347.9	9087.6	11406.5	7299.8
75°	2085.2	2042.8	1766.5	1541.9	1387.1	1198.9	1632.9	1863.6	4346.5	5238.9	3663.6
77.5°	1824.2	1778.7	1569.2	1347.6	1235.3	974.3	1159.5	1265.7	1833.3	2124.7	1654.2
80°	1335.5	1381.1	1323.3	1189.8	1101.8	764.9	780.0	868.1	1089.6	1205.0	1010.8
82.5°	846.8	931.8	1019.9	916.7	834.7	604.0	540.3	573.7	743.6	789.2	449.2
85°	355.1	361.2	591.9	558.5	476.5	358.1	324.8	343.0	397.6	415.9	209.5
87.5°	136.6	133.6	209.5	194.3	148.7	103.2	103.2	115.3	157.9	145.7	66.8
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°	11649.3	11649.3	11649.3	11649.3	11649.3	11649.3	11649.3	11649.3	11649.3	11649.3	11649.3
2.5°	11688.8	11473.3	11045.3	10514.1	10125.7	9688.6	9303.1	9026.9	8923.7	8875.1	8784.1
5°	11679.7	11254.8	10368.5	9439.7	8693.0	7928.1	7281.6	6862.8	6826.4	6547.1	6519.7
7.5°	11682.8	11033.2	9621.8	8256.0	7117.7	6334.6	5800.4	5660.8	5493.8	5451.3	5472.6
10°	11691.8	10750.9	8820.5	7084.3	5982.5	5469.6	5269.2	5214.6	5220.7	5238.9	5241.9
12.5°	11704.0	10477.7	7988.8	6194.9	5345.1	5132.6	5111.4	5160.0	5211.6	5251.0	5260.1
15°	11719.2	10165.1	7178.4	5478.7	5026.4	5008.2	5078.0	5160.0	5232.8	5290.5	5299.6
17.5°	11700.9	9800.9	6498.5	5038.5	4850.4	4938.4	5053.7	5156.9	5223.7	5278.4	5284.4
20°	11658.5	9394.1	5842.9	4728.9	4741.1	4883.7	5008.2	5105.3	5178.1	5205.5	5226.8
22.5°	11494.5	8908.5	5272.3	4489.2	4610.5	4807.9	4956.6	5014.3	4932.3	4874.6	4889.8
25°	11215.3	8277.2	4741.1	4294.9	4492.2	4701.6	4853.4	4713.7	4647.0	4622.7	4634.8
27.5°	10866.2	7585.2	4340.4	4091.6	4340.4	4583.2	4540.8	4516.5	4486.1	4446.7	4455.7
30°	10489.9	6908.3	4000.5	3933.7	4176.5	4316.1	4334.4	4373.8	4340.4	4279.7	4304.0
32.5°	10140.8	6270.9	3742.5	3800.1	4061.2	4040.0	4176.5	4222.1	4067.3	3863.9	3873.0
35°	9843.3	5679.0	3548.2	3669.6	3863.9	3873.0	4009.6	3851.7	3684.8	3587.7	3593.7
37.5°	9618.8	5217.6	3420.8	3557.3	3612.0	3727.3	3654.5	3572.5	3551.3	3484.5	3487.5
40°	9485.2	4814.0	3338.8	3469.3	3460.2	3539.1	3305.4	3387.3	3417.7	3396.5	3399.5
42.5°	9351.7	4528.6	3253.8	3347.9	3344.9	3190.1	3138.5	3208.3	3287.2	3296.3	3290.2
45°	9245.4	4307.0	3165.7	3162.8	3223.5	2980.6	2965.5	3008.0	3120.3	3174.9	3171.9
47.5°	9127.0	4121.9	3032.2	2947.2	2965.5	2850.1	2825.8	2844.0	2980.6	3068.7	3092.9
50°	8978.3	3936.8	2865.3	2750.0	2674.1	2728.7	2734.8	2737.8	2874.4	2974.5	2995.8
52.5°	8860.0	3797.1	2674.1	2589.1	2498.0	2619.4	2664.9	2671.0	2752.9	2834.9	2850.1
55°	8929.7	3718.2	2485.9	2425.2	2343.2	2507.2	2595.2	2607.3	2625.5	2686.2	2695.3
57.5°	9139.2	3736.4	2334.1	2255.2	2194.5	2373.6	2522.3	2531.4	2519.3	2592.1	2604.3
60°	9202.9	3727.3	2221.8	2067.0	2030.6	2230.9	2416.1	2434.3	2431.2	2537.5	2558.8
62.5°	8935.8	3612.0	2109.5	1909.2	1884.9	2085.2	2267.3	2340.2	2355.3	2507.2	2534.4
65°	8307.6	3375.2	1960.8	1742.3	1742.3	1930.4	2124.7	2224.8	2267.3	2470.7	2501.1
67.5°	7478.9	3096.0	1809.0	1599.6	1593.5	1781.7	1972.9	2076.1	2142.9	2419.1	2437.3
70°	6207.2	2719.6	1620.8	1444.8	1444.8	1614.8	1787.7	1912.2	2009.3	2322.0	2322.0
72.5°	4252.4	2261.3	1393.2	1268.8	1271.7	1429.6	1605.6	1745.3	1860.6	2127.7	2133.8
75°	2689.2	1766.5	1144.3	1080.5	1092.7	1241.4	1423.6	1569.2	1799.9	2103.5	2112.5
77.5°	1429.6	1241.4	910.6	895.4	910.6	1047.2	1250.5	1450.8	1806.0	1824.2	1793.9
80°	925.7	880.2	719.3	689.0	695.1	843.8	1114.0	1378.0	1450.8	1469.1	1402.3
82.5°	503.9	558.5	509.9	479.6	479.6	658.7	950.0	1095.7	1041.1	865.1	825.6
85°	215.5	261.1	264.1	230.7	221.6	406.7	637.4	598.0	555.5	531.2	525.1
87.5°	60.7	85.0	85.0	63.7	48.5	112.3	127.5	36.4	0.0	3.1	6.1
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)