

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: P647813

Luminaire Tested: **GALN-SA3A-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647813
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-SA3A-835-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 615mA 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: 9645 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

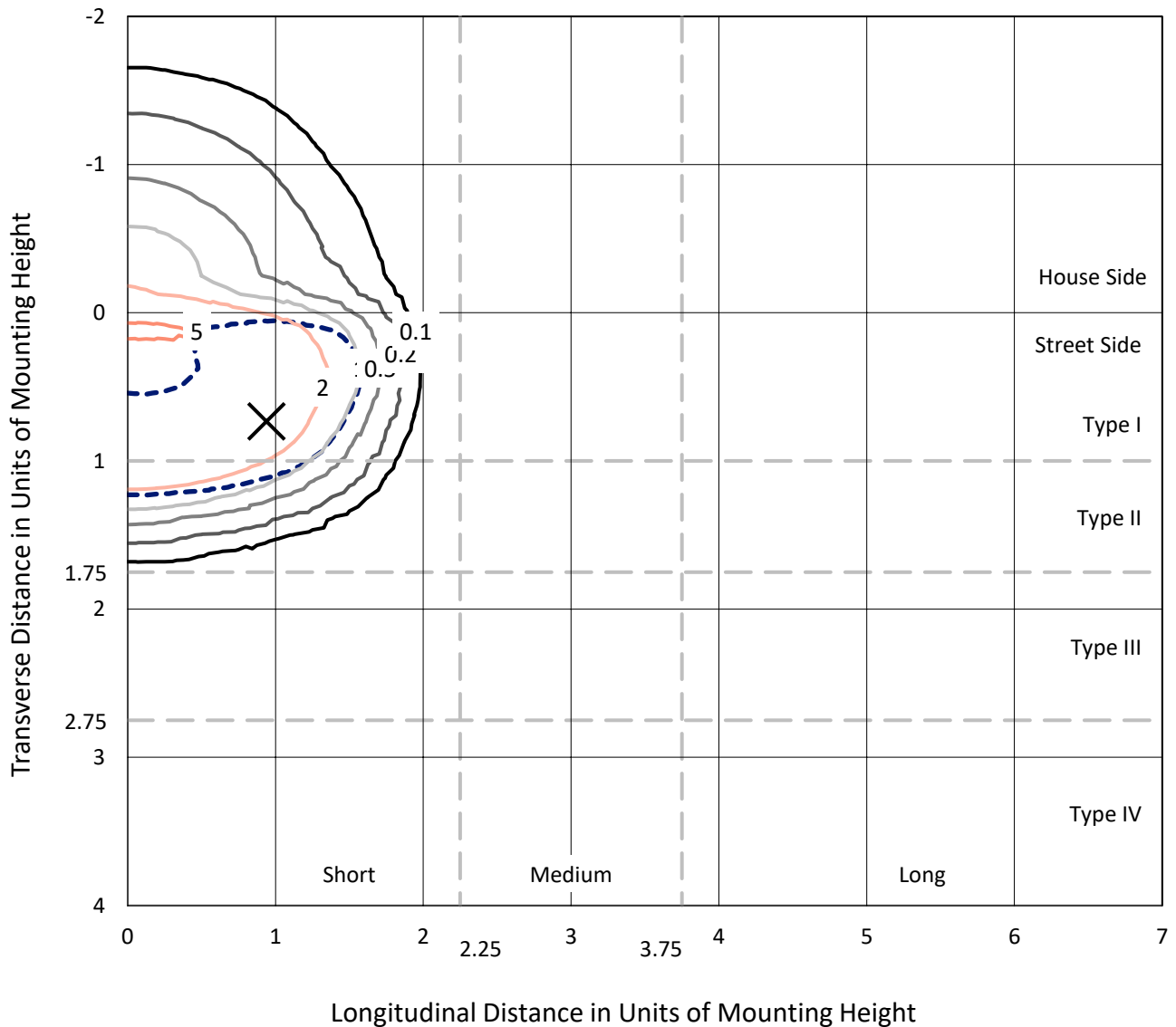
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

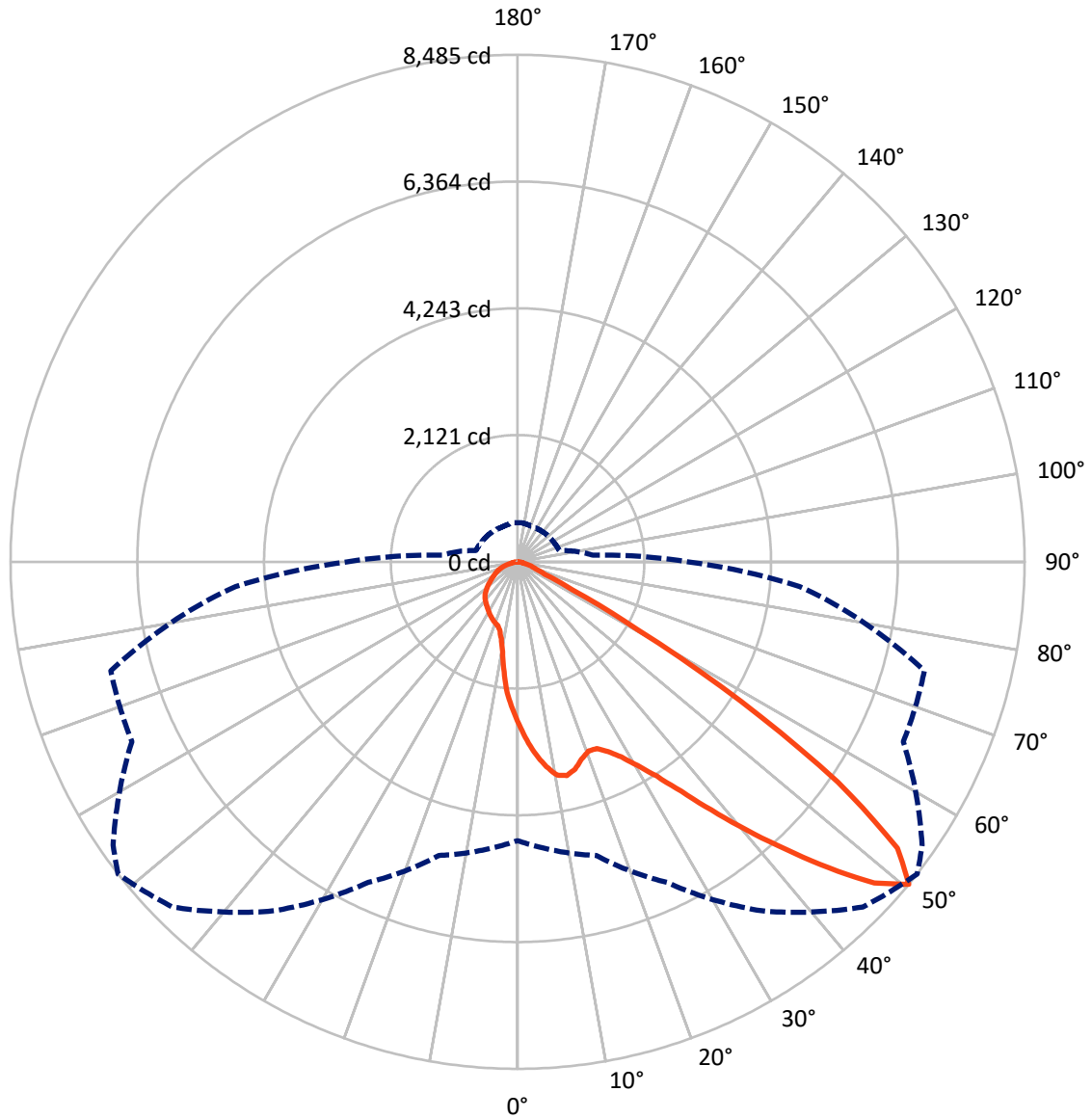
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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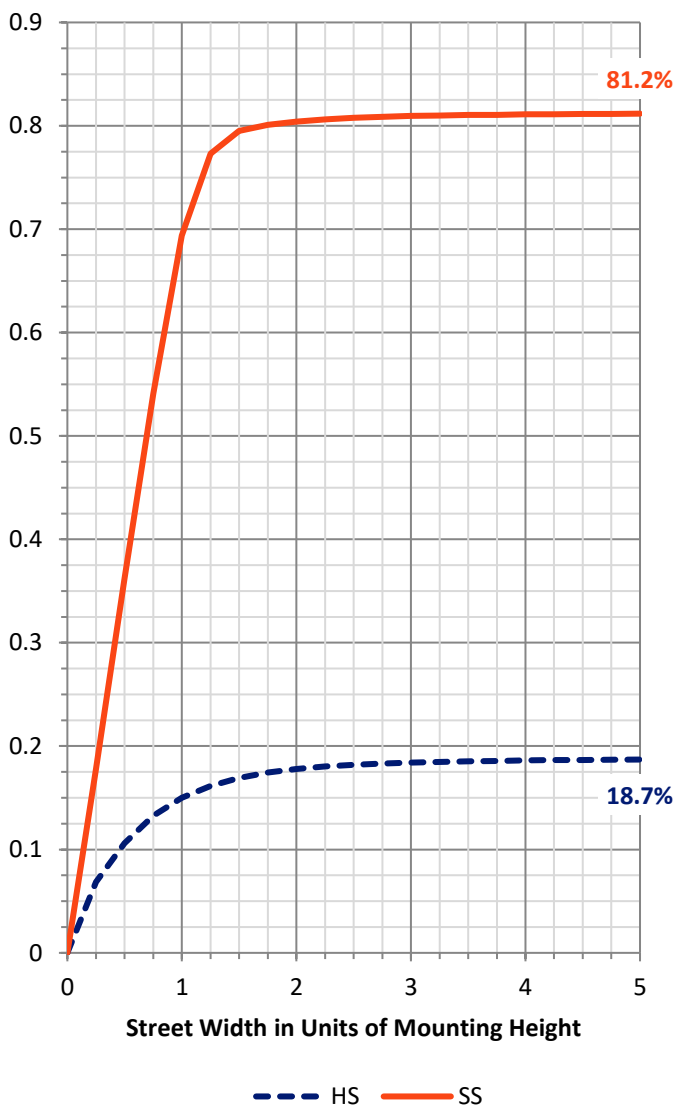
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1813.0	0.0	1813.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	7832.0	0.0	7832.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	9645.0	0.0	9645.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.6	2.6
10°-20°	671.6	7.0
20°-30°	1131.3	11.7
30°-40°	1898.5	19.7
40°-50°	2904.2	30.1
50°-60°	2117.4	22.0
60°-70°	471.2	4.9
70°-80°	170.0	1.8
80°-90°	30.1	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°	9645.0	100.0
0°-180°	9645.0	100.0

Coefficient of Utilization

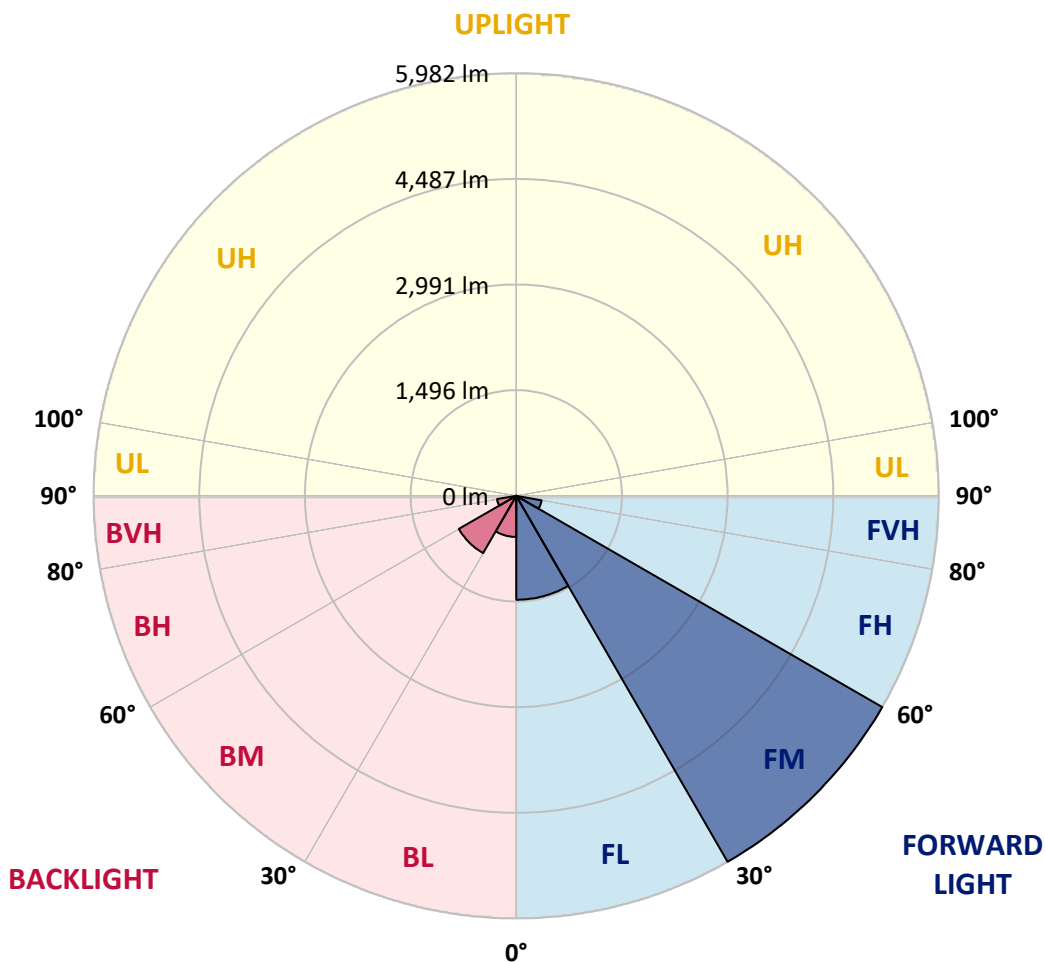


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1471.2	15.3			
FM (30°-60°)	5982.3	62.0			
FH (60°-80°)	365.0	3.8			G0/660
FVH (80°-90°)	13.5	0.1			G1/100
BL (0°-30°)	582.4	6.0	B2/1000		
BM (30°-60°)	937.8	9.7	B1/1000		
BH (60°-80°)	276.2	2.9	B1/500		G1/500
BVH (80°-90°)	16.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2718.7	2718.7	2718.7	2718.7	2718.7	2718.7	2718.7	2718.7	2718.7	2718.7	2718.7
2.5°	3201.1	3139.5	3146.5	3102.3	3054.7	3040.7	2991.9	2945.4	2910.6	2836.2	2767.6
5°	3498.7	3480.1	3452.2	3417.3	3381.3	3293.0	3243.0	3184.9	3057.0	2942.0	2828.0
7.5°	3541.7	3538.2	3553.3	3553.3	3566.1	3532.4	3461.5	3420.8	3284.8	3097.7	2886.1
10°	3239.5	3250.0	3323.2	3418.5	3551.0	3642.8	3631.2	3620.7	3472.0	3216.3	2954.7
12.5°	2998.9	2975.6	3018.6	3100.1	3298.8	3520.8	3670.7	3671.9	3633.5	3405.7	3004.7
15°	2862.9	2879.2	2890.8	2929.1	3079.1	3336.0	3599.8	3677.8	3846.3	3539.4	3083.8
17.5°	2950.1	2895.5	2893.1	2902.4	2979.2	3172.1	3468.5	3602.2	3962.5	3711.4	3181.4
20°	3064.0	3062.9	3030.3	3018.6	3017.5	3189.6	3382.5	3563.8	4024.1	3934.6	3280.2
22.5°	3263.9	3263.9	3210.5	3184.9	3130.3	3270.9	3394.1	3517.3	4126.4	4088.0	3327.8
25°	3598.7	3544.0	3452.2	3389.5	3358.1	3408.0	3517.3	3627.7	4215.9	4250.8	3426.6
27.5°	3907.9	3821.8	3776.5	3668.4	3626.5	3597.5	3697.5	3809.1	4320.5	4504.1	3480.1
30°	4258.9	4243.8	4162.4	4022.9	3919.5	3866.0	3957.8	4068.2	4512.3	4763.4	3603.3
32.5°	4886.5	4749.4	4639.0	4468.1	4299.6	4185.7	4276.4	4349.6	4830.8	5034.2	3738.1
35°	5564.2	5520.1	5329.4	5021.4	4763.4	4661.0	4714.5	4769.2	5201.5	5448.0	3964.8
37.5°	6230.3	6169.8	6012.9	5753.7	5439.8	5231.8	5270.1	5334.1	5617.7	6005.9	4241.4
40°	6709.1	6634.8	6555.7	6517.4	6205.8	5921.0	5899.0	5915.3	6180.3	6529.0	4548.3
42.5°	6744.1	6835.8	6860.3	7014.8	6941.6	6708.0	6572.0	6575.5	6717.3	7046.2	4858.7
45°	6670.8	6586.0	6766.1	7188.0	7429.8	7539.1	7310.1	7281.0	7049.7	7346.1	5013.2
47.5°	5902.5	5925.7	6230.3	6897.4	7596.0	8084.2	8030.8	7934.3	7227.6	7335.7	4988.9
50°	4665.7	4806.4	5088.8	5919.9	7131.1	8170.2	8485.2	8262.1	7121.8	7047.4	4740.1
52.5°	3107.0	3165.1	3351.1	4424.0	5733.9	7303.1	7962.2	8013.3	7024.1	6669.6	4425.1
55°	1383.2	1378.5	1640.1	2310.8	3597.5	5557.3	6505.7	6817.3	6648.7	6284.9	4118.3
57.5°	585.8	605.6	712.5	998.5	1769.1	3353.4	4407.7	4680.9	5113.2	5160.9	3159.3
60°	396.4	398.7	427.8	499.8	740.4	1575.0	2312.0	2639.7	2948.9	2928.0	1676.1
62.5°	311.5	319.6	341.7	370.8	439.3	714.9	1034.5	1217.0	1236.7	1040.3	635.8
65°	266.1	267.3	289.4	313.8	344.1	416.2	498.6	507.9	513.7	495.2	467.3
67.5°	219.7	222.0	239.4	267.3	295.3	318.5	341.7	353.4	380.1	432.4	425.4
70°	174.4	177.8	192.9	216.2	241.8	255.7	284.8	295.3	319.6	360.3	376.6
72.5°	132.5	133.7	146.4	162.7	186.0	199.9	224.3	236.0	252.2	287.1	302.2
75°	95.3	98.8	108.1	116.2	119.7	129.0	152.3	165.1	188.3	203.4	204.6
77.5°	50.0	52.3	54.7	54.7	66.2	83.7	98.8	105.8	122.1	133.7	127.9
80°	19.7	20.9	26.7	36.0	46.5	60.4	70.9	74.4	88.3	95.3	98.8
82.5°	11.6	12.8	17.5	25.6	33.7	43.0	51.1	54.7	63.9	72.0	74.4
85°	5.8	7.0	10.5	16.3	22.1	26.7	25.6	24.4	24.4	23.3	24.4
87.5°	2.3	2.3	3.5	3.5	3.5	4.6	5.8	5.8	5.8	7.0	7.0
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°	2718.7	2718.7	2718.7	2718.7	2718.7	2718.7	2718.7	2718.7	2718.7	2718.7	2718.7
2.5°	2722.3	2675.7	2632.8	2553.7	2467.7	2443.3	2343.3	2307.3	2281.7	2251.5	2242.2
5°	2736.2	2674.6	2536.3	2377.0	2250.3	2087.6	1980.7	1865.6	1781.9	1761.0	1755.2
7.5°	2765.2	2659.5	2421.2	2180.6	1921.4	1700.5	1532.0	1441.3	1361.1	1356.5	1348.3
10°	2797.8	2614.1	2295.7	1917.9	1586.6	1382.1	1280.9	1241.4	1221.6	1217.0	1214.7
12.5°	2824.5	2604.9	2155.1	1662.2	1349.5	1226.3	1196.0	1192.6	1200.7	1203.1	1207.7
15°	2836.2	2567.7	1985.3	1433.2	1201.9	1156.6	1169.3	1183.3	1189.1	1204.2	1192.6
17.5°	2858.3	2520.0	1776.1	1251.9	1119.4	1127.5	1149.6	1165.9	1175.1	1185.6	1170.5
20°	2869.9	2477.0	1579.6	1143.7	1090.3	1105.4	1135.7	1148.4	1160.0	1164.7	1147.3
22.5°	2859.4	2388.6	1406.4	1056.6	1062.4	1082.2	1108.9	1122.8	1115.9	1097.3	1086.8
25°	2831.5	2264.3	1226.3	1000.8	1022.9	1057.8	1078.7	1068.2	1055.4	1045.0	1041.5
27.5°	2830.4	2112.0	1096.1	949.6	989.2	1036.8	1029.9	1020.6	1026.4	1018.2	1008.9
30°	2836.2	1964.4	989.2	920.6	964.7	988.0	996.1	986.8	993.8	978.7	983.4
32.5°	2806.0	1820.2	919.4	886.9	935.7	934.5	961.3	968.3	952.0	920.6	925.3
35°	2818.7	1704.0	860.1	871.8	903.2	903.2	924.1	916.0	873.0	854.3	859.0
37.5°	2907.0	1590.1	831.1	850.9	871.8	881.0	874.1	839.2	828.7	828.7	831.1
40°	2990.7	1492.5	813.6	846.2	842.7	848.5	797.4	800.9	800.9	802.0	796.2
42.5°	3065.1	1426.2	799.7	818.3	824.1	793.9	762.5	759.0	767.2	766.0	761.3
45°	3091.9	1371.6	779.9	786.9	791.5	741.6	726.5	719.5	728.8	732.3	737.0
47.5°	2989.6	1326.2	757.9	743.9	734.6	702.0	682.3	669.5	681.1	700.9	705.6
50°	2858.3	1267.0	723.0	696.2	676.5	662.6	648.6	635.8	643.9	657.9	654.4
52.5°	2664.2	1174.0	678.8	650.9	617.2	620.7	607.9	601.0	605.6	605.6	602.1
55°	2387.5	964.7	604.4	584.7	556.8	566.1	568.4	559.1	549.8	558.0	551.0
57.5°	1629.7	681.1	539.3	539.3	511.5	524.2	523.0	501.0	478.9	481.2	476.5
60°	942.7	542.9	497.5	492.8	463.8	474.3	476.5	461.4	427.8	430.1	425.4
62.5°	535.9	463.8	434.7	427.8	422.0	431.2	431.2	411.5	382.4	384.8	380.1
65°	455.6	430.1	388.2	387.0	384.8	387.0	377.8	356.8	331.3	320.8	322.0
67.5°	413.8	397.5	356.8	346.4	339.4	338.3	320.8	301.1	289.4	280.2	279.0
70°	362.7	349.8	319.6	305.7	298.7	282.4	265.0	252.2	236.0	231.3	236.0
72.5°	287.1	286.0	274.3	259.2	244.1	231.3	216.2	198.7	183.7	180.2	172.0
75°	198.7	201.1	203.4	201.1	188.3	172.0	154.6	140.6	122.1	111.6	109.2
77.5°	130.2	133.7	137.2	132.5	124.3	109.2	97.6	80.2	66.2	58.1	56.9
80°	95.3	100.0	102.3	98.8	89.5	77.9	65.1	51.1	40.7	33.7	33.7
82.5°	73.2	77.9	80.2	74.4	65.1	55.8	46.5	36.0	27.9	22.1	20.9
85°	25.6	24.4	29.0	30.2	36.0	33.7	27.9	20.9	16.3	11.6	10.5
87.5°	7.0	7.0	8.1	8.1	7.0	5.8	5.8	5.8	4.6	3.5	3.5
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)