

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: P650728

Luminaire Tested: **GALN-SA2C-840-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650728
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-SA2C-840-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1050mA 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: 10728.7 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

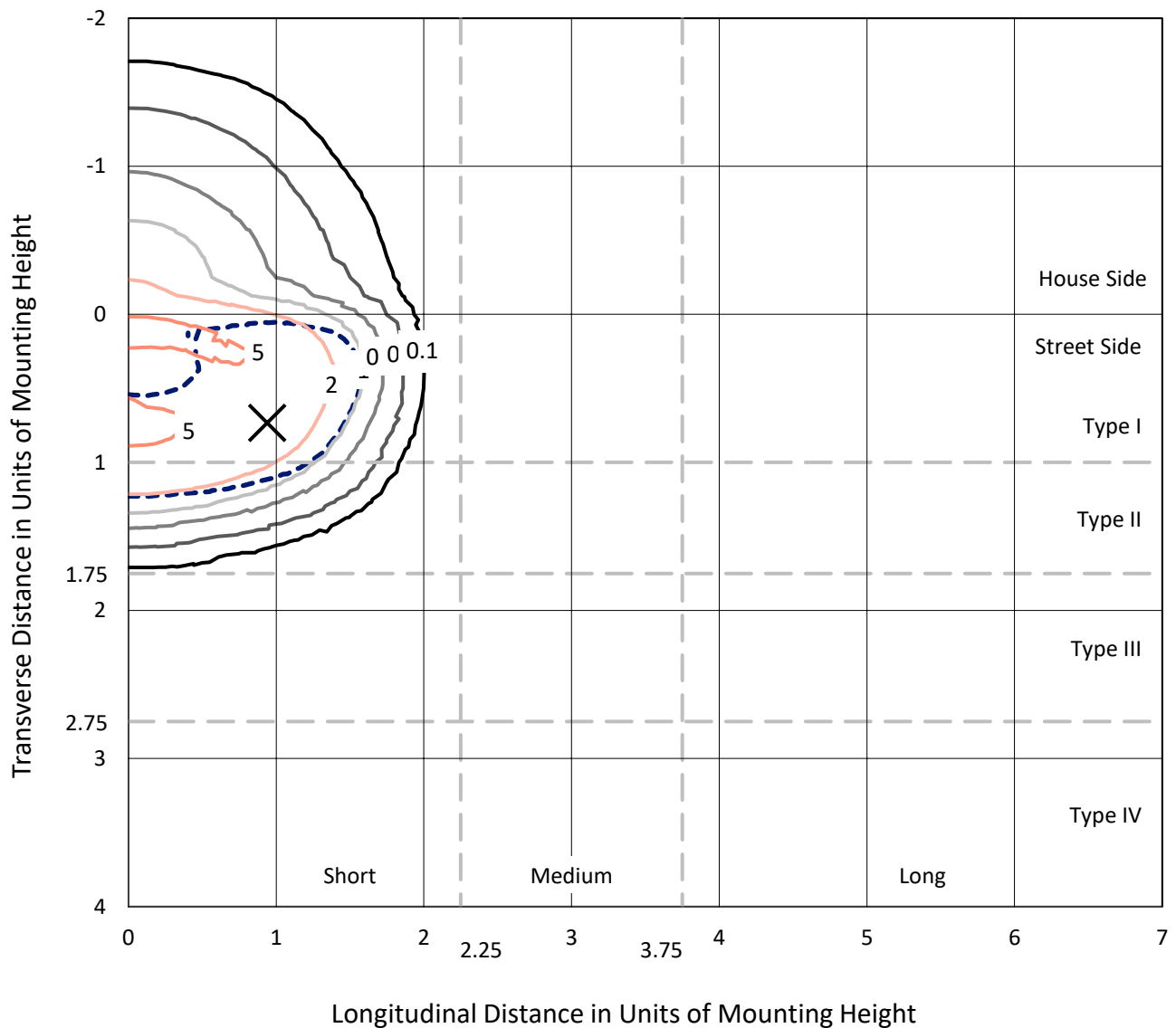
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

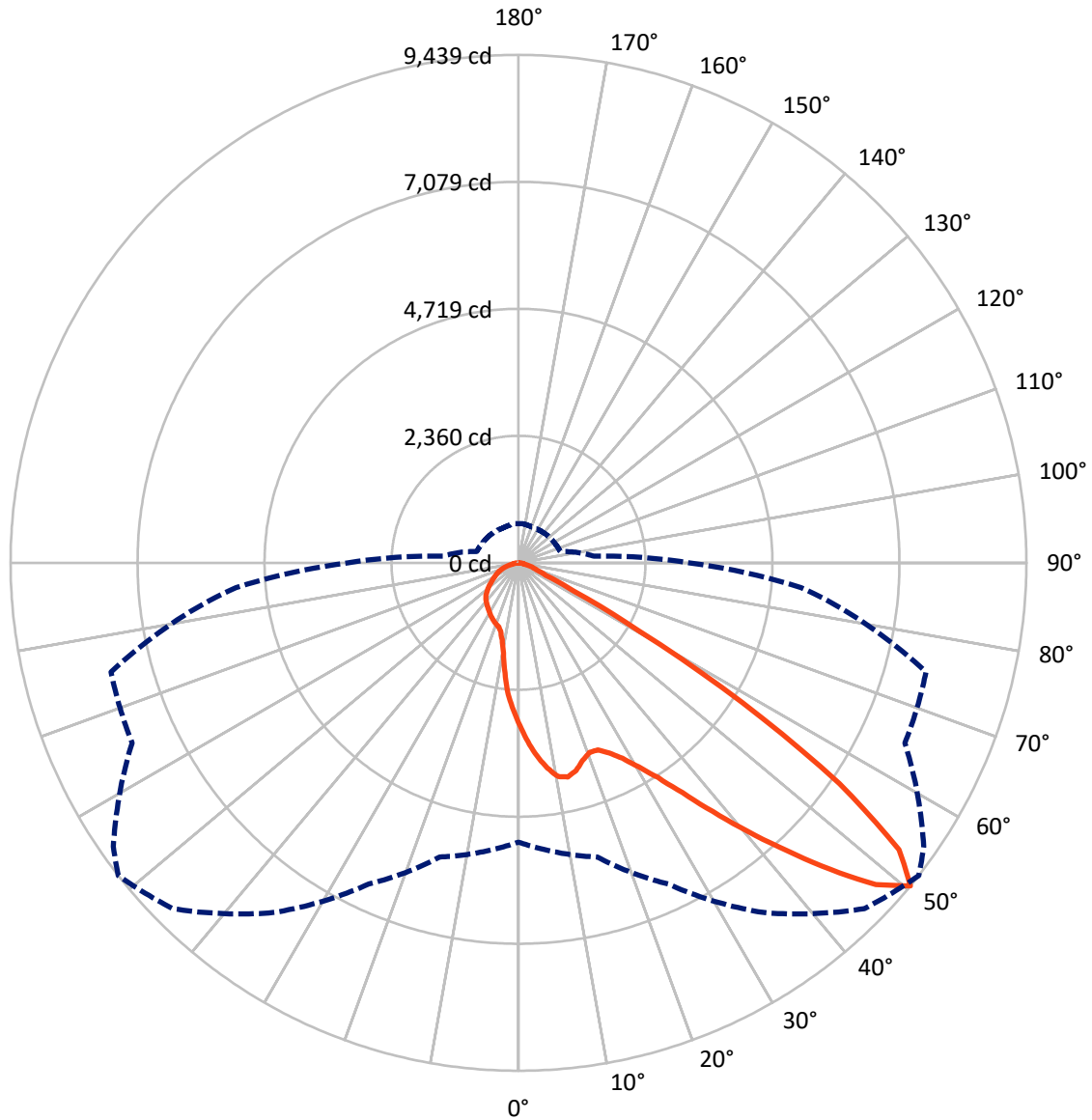
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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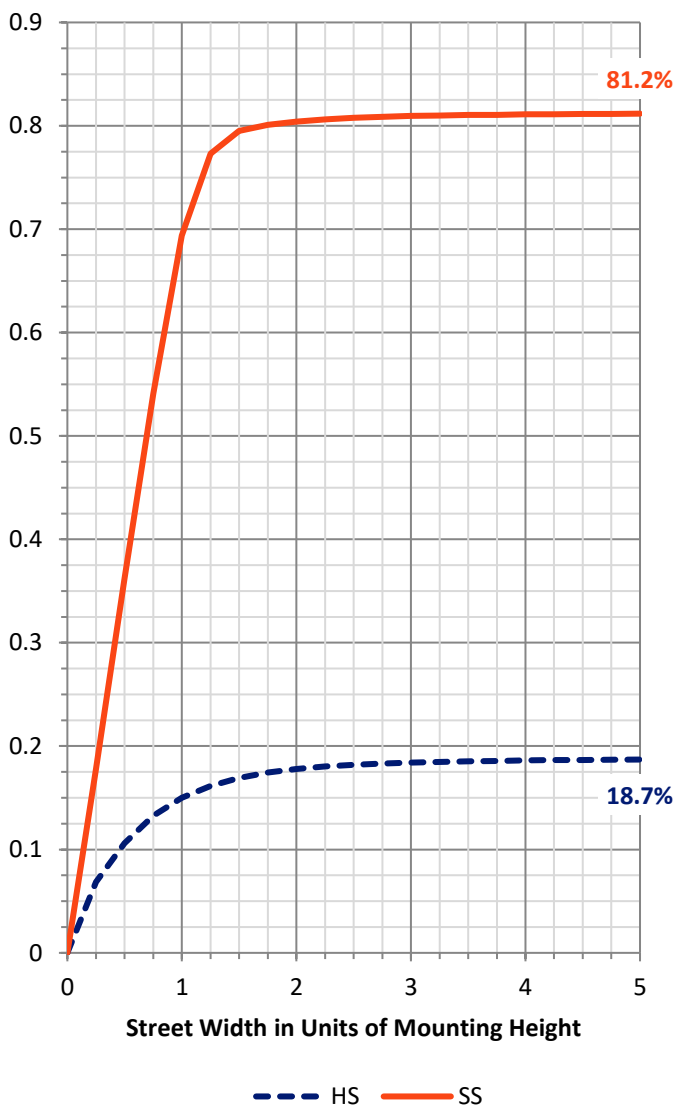
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2016.7	0.0	2016.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	8711.9	0.0	8711.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	10728.7	0.0	10728.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.7	2.6
10°-20°	747.1	7.0
20°-30°	1258.5	11.7
30°-40°	2111.8	19.7
40°-50°	3230.5	30.1
50°-60°	2355.3	22.0
60°-70°	524.2	4.9
70°-80°	189.1	1.8
80°-90°	33.5	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°	10728.7	100.0
0°-180°	10728.7	100.0

Coefficient of Utilization

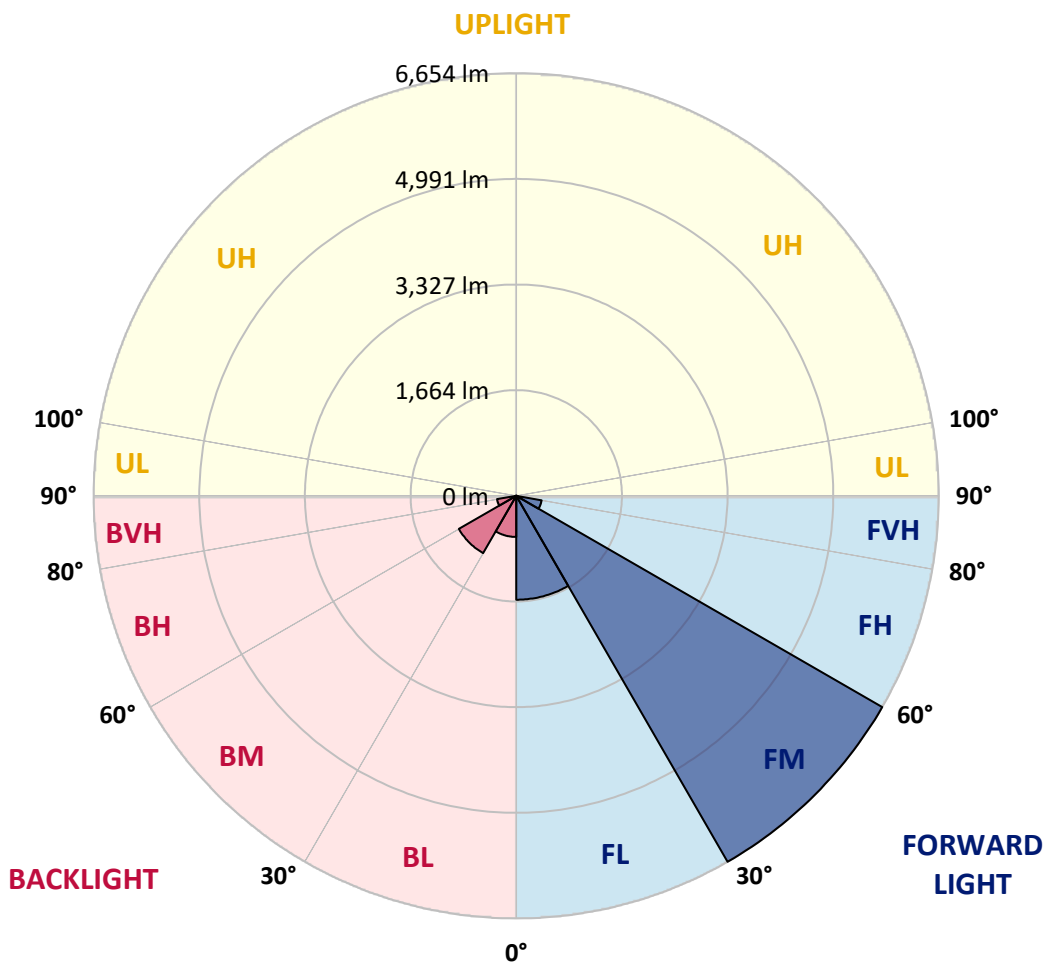


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1636.5	15.3			
FM (30°-60°)	6654.4	62.0			
FH (60°-80°)	406.0	3.8			G0/660
FVH (80°-90°)	15.0	0.1			G1/100
BL (0°-30°)	647.8	6.0	B2/1000		
BM (30°-60°)	1043.2	9.7	B2/2500		
BH (60°-80°)	307.3	2.9	B1/500		G1/500
BVH (80°-90°)	18.5	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°	3024.2	3024.2	3024.2	3024.2	3024.2	3024.2	3024.2	3024.2	3024.2	3024.2	3024.2
2.5°	3560.8	3492.3	3500.1	3450.9	3397.9	3382.3	3328.1	3276.4	3237.6	3154.8	3078.6
5°	3891.8	3871.1	3840.1	3801.3	3761.2	3663.0	3607.4	3542.7	3400.5	3272.5	3145.8
7.5°	3939.7	3935.8	3952.5	3952.5	3966.8	3929.3	3850.4	3805.2	3653.9	3445.7	3210.4
10°	3603.4	3615.1	3696.5	3802.6	3950.0	4052.1	4039.2	4027.5	3862.0	3577.6	3286.7
12.5°	3335.8	3310.0	3357.8	3448.4	3669.5	3916.4	4083.1	4084.5	4041.8	3788.4	3342.3
15°	3184.5	3202.6	3215.6	3258.3	3425.1	3710.7	4004.3	4090.9	4278.4	3937.1	3430.2
17.5°	3281.5	3220.8	3218.2	3228.5	3313.9	3528.5	3858.2	4006.9	4407.7	4128.4	3538.8
20°	3408.2	3407.0	3370.7	3357.8	3356.5	3547.8	3762.5	3964.2	4476.2	4376.6	3648.8
22.5°	3630.6	3630.6	3571.1	3542.7	3481.9	3638.4	3775.4	3912.5	4590.0	4547.3	3701.7
25°	4003.0	3942.2	3840.1	3770.3	3735.4	3791.0	3912.5	4035.3	4689.6	4728.4	3811.7
27.5°	4347.0	4251.3	4200.8	4080.5	4034.0	4001.7	4112.9	4237.0	4805.9	5010.2	3871.1
30°	4737.4	4720.6	4630.0	4475.0	4359.8	4300.4	4402.6	4525.3	5019.3	5298.6	4008.2
32.5°	5435.6	5283.0	5160.2	4970.1	4782.7	4655.9	4756.8	4838.3	5373.5	5599.8	4158.2
35°	6189.4	6140.2	5928.2	5585.6	5298.6	5184.8	5244.2	5305.0	5786.0	6060.1	4410.3
37.5°	6930.3	6863.0	6688.5	6400.1	6051.0	5819.6	5862.3	5933.3	6248.9	6680.7	4718.0
40°	7462.9	7380.2	7292.3	7249.6	6903.1	6586.3	6561.7	6579.8	6874.7	7262.5	5059.4
42.5°	7501.7	7603.9	7631.1	7803.0	7721.6	7461.7	7310.4	7314.3	7472.0	7837.9	5404.5
45°	7420.3	7325.9	7526.3	7995.6	8264.6	8386.1	8131.4	8099.1	7841.8	8171.5	5576.5
47.5°	6565.6	6591.5	6930.3	7672.4	8449.4	8992.5	8933.0	8825.7	8039.6	8159.9	5549.3
50°	5189.9	5346.4	5660.6	6585.0	7932.3	9088.2	9438.5	9190.4	7922.0	7839.2	5272.6
52.5°	3456.1	3520.7	3727.6	4921.0	6378.1	8123.6	8856.7	8913.7	7813.3	7419.0	4922.3
55°	1538.6	1533.5	1824.4	2570.4	4001.7	6181.6	7236.6	7583.2	7395.7	6991.0	4580.9
57.5°	651.7	673.6	792.6	1110.6	1967.9	3730.2	4902.9	5206.7	5687.7	5740.8	3514.3
60°	440.9	443.5	475.8	556.0	823.6	1752.0	2571.7	2936.3	3280.2	3256.9	1864.4
62.5°	346.5	355.6	380.1	412.4	488.7	795.2	1150.7	1353.8	1375.7	1157.2	707.3
65°	296.1	297.4	321.9	349.1	382.7	462.9	554.6	565.0	571.5	550.8	519.7
67.5°	244.4	246.9	266.3	297.4	328.4	354.2	380.1	393.1	422.8	481.0	473.2
70°	193.9	197.8	214.6	240.5	269.0	284.4	316.8	328.4	355.6	400.8	418.9
72.5°	147.4	148.7	162.9	181.0	206.9	222.4	249.5	262.5	280.6	319.3	336.1
75°	106.1	109.9	120.3	129.3	133.2	143.6	169.4	183.6	209.5	226.2	227.6
77.5°	55.6	58.2	60.8	60.8	73.7	93.1	109.9	117.7	135.7	148.7	142.2
80°	22.0	23.3	29.8	40.1	51.7	67.2	78.9	82.8	98.2	106.1	109.9
82.5°	13.0	14.2	19.4	28.4	37.5	47.9	56.9	60.8	71.1	80.1	82.8
85°	6.5	7.7	11.6	18.1	24.6	29.8	28.4	27.2	27.2	25.8	27.2
87.5°	2.6	2.6	3.9	3.9	3.9	5.1	6.5	6.5	6.5	7.7	7.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3024.2	3024.2	3024.2	3024.2	3024.2	3024.2	3024.2	3024.2	3024.2	3024.2	3024.2
2.5°	3028.1	2976.4	2928.5	2840.6	2744.9	2717.8	2606.6	2566.5	2538.1	2504.5	2494.2
5°	3043.6	2975.1	2821.2	2644.1	2503.2	2322.2	2203.2	2075.2	1982.1	1958.9	1952.4
7.5°	3076.0	2958.3	2693.2	2425.6	2137.2	1891.6	1704.1	1603.3	1514.1	1508.8	1499.8
10°	3112.1	2907.8	2553.6	2133.4	1764.9	1537.3	1424.8	1380.8	1358.9	1353.8	1351.2
12.5°	3141.9	2897.5	2397.1	1848.9	1501.1	1364.1	1330.5	1326.6	1335.6	1338.2	1343.4
15°	3154.8	2856.1	2208.4	1594.2	1336.9	1286.5	1300.7	1316.2	1322.7	1339.5	1326.6
17.5°	3179.4	2803.1	1975.7	1392.5	1245.1	1254.2	1278.7	1296.8	1307.2	1318.9	1302.0
20°	3192.3	2755.3	1757.1	1272.3	1212.8	1229.6	1263.2	1277.5	1290.3	1295.6	1276.1
22.5°	3180.7	2657.1	1564.5	1175.3	1181.8	1203.7	1233.5	1249.0	1241.2	1220.5	1208.9
25°	3149.6	2518.7	1364.1	1113.2	1137.8	1176.6	1199.9	1188.2	1174.0	1162.3	1158.5
27.5°	3148.4	2349.3	1219.3	1056.4	1100.3	1153.3	1145.5	1135.2	1141.7	1132.7	1122.3
30°	3154.8	2185.1	1100.3	1024.0	1073.1	1099.0	1108.1	1097.8	1105.5	1088.7	1093.8
32.5°	3121.2	2024.8	1022.7	986.5	1040.8	1039.6	1069.2	1077.1	1058.9	1024.0	1029.2
35°	3135.4	1895.4	956.8	969.8	1004.7	1004.7	1027.9	1018.9	971.0	950.3	955.5
37.5°	3233.6	1768.8	924.4	946.5	969.8	980.1	972.3	933.5	921.9	921.9	924.4
40°	3326.7	1660.1	905.1	941.2	937.4	943.9	887.0	890.9	890.9	892.1	885.7
42.5°	3409.5	1586.5	889.5	910.2	916.7	883.0	848.1	844.3	853.4	852.0	846.9
45°	3439.3	1525.7	867.6	875.3	880.5	824.9	808.1	800.4	810.7	814.6	819.7
47.5°	3325.5	1475.3	843.0	827.5	817.1	781.0	759.0	744.7	757.7	779.7	784.8
50°	3179.4	1409.3	804.2	774.5	752.5	737.0	721.5	707.3	716.3	731.8	728.0
52.5°	2963.4	1305.9	755.0	724.0	686.6	690.5	676.2	668.4	673.6	673.6	669.8
55°	2655.7	1073.1	672.3	650.3	619.3	629.7	632.3	621.9	611.6	620.7	612.8
57.5°	1812.7	757.7	600.0	600.0	568.9	583.1	581.8	557.2	532.7	535.3	530.1
60°	1048.6	603.8	553.4	548.2	515.9	527.6	530.1	513.3	475.8	478.4	473.2
62.5°	596.0	515.9	483.6	475.8	469.4	479.7	479.7	457.7	425.4	428.0	422.8
65°	506.9	478.4	431.9	430.6	428.0	430.6	420.2	397.0	368.5	356.8	358.2
67.5°	460.3	442.2	397.0	385.3	377.5	376.3	356.8	334.9	321.9	311.6	310.3
70°	403.4	389.2	355.6	340.0	332.3	314.2	294.8	280.6	262.5	257.3	262.5
72.5°	319.3	318.1	305.1	288.3	271.6	257.3	240.5	221.1	204.3	200.4	191.3
75°	221.1	223.7	226.2	223.7	209.5	191.3	172.0	156.4	135.7	124.1	121.5
77.5°	144.8	148.7	152.6	147.4	138.3	121.5	108.6	89.2	73.7	64.7	63.3
80°	106.1	111.2	113.8	109.9	99.6	86.6	72.4	56.9	45.2	37.5	37.5
82.5°	81.5	86.6	89.2	82.8	72.4	62.1	51.7	40.1	31.0	24.6	23.3
85°	28.4	27.2	32.3	33.6	40.1	37.5	31.0	23.3	18.1	13.0	11.6
87.5°	7.7	7.7	9.1	9.1	7.7	6.5	6.5	6.5	5.1	3.9	3.9
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)