

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: P533558

Luminaire Tested: **GALN-SA9A-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533558
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-SA9A-730-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 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: 34070 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

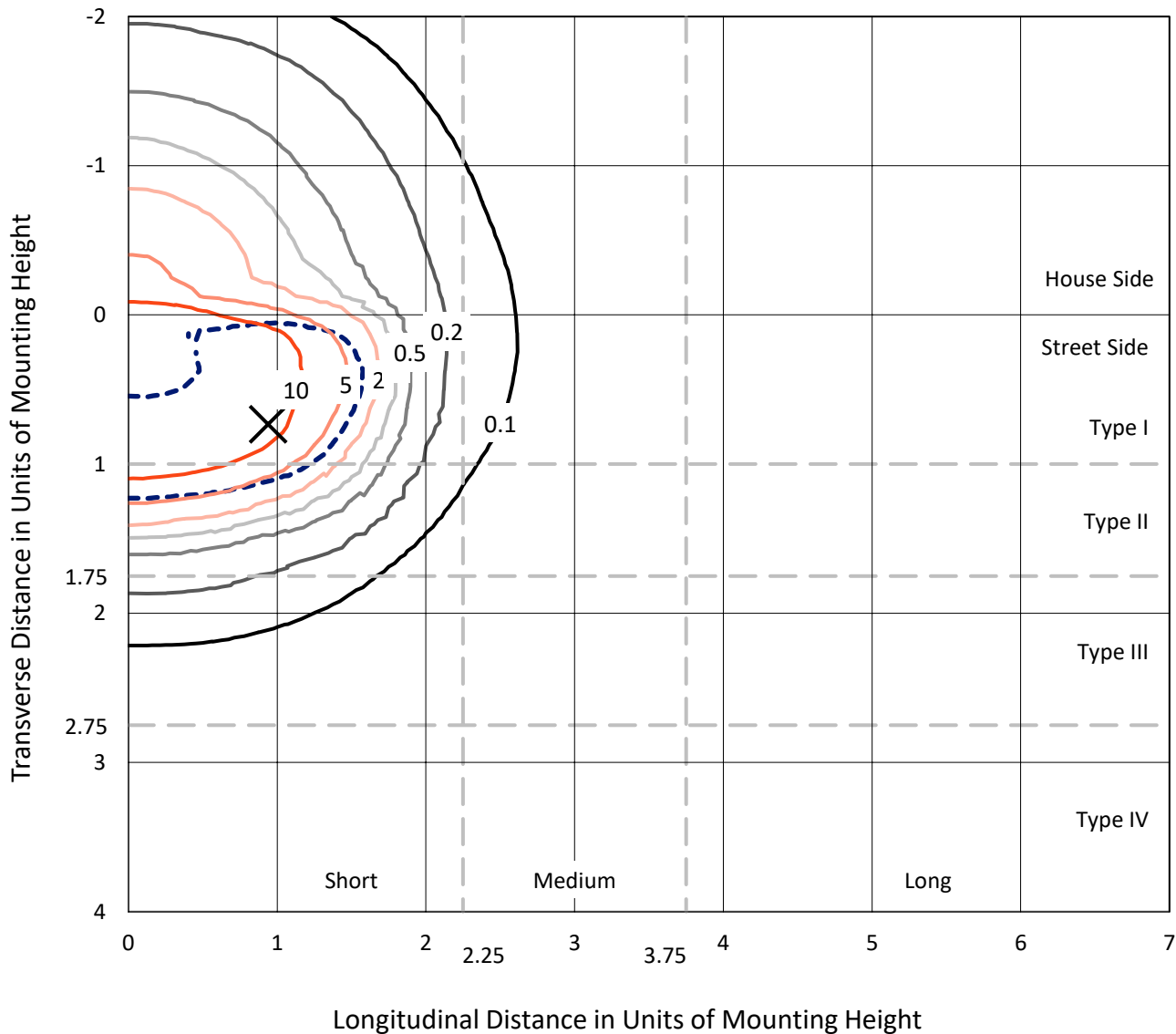
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

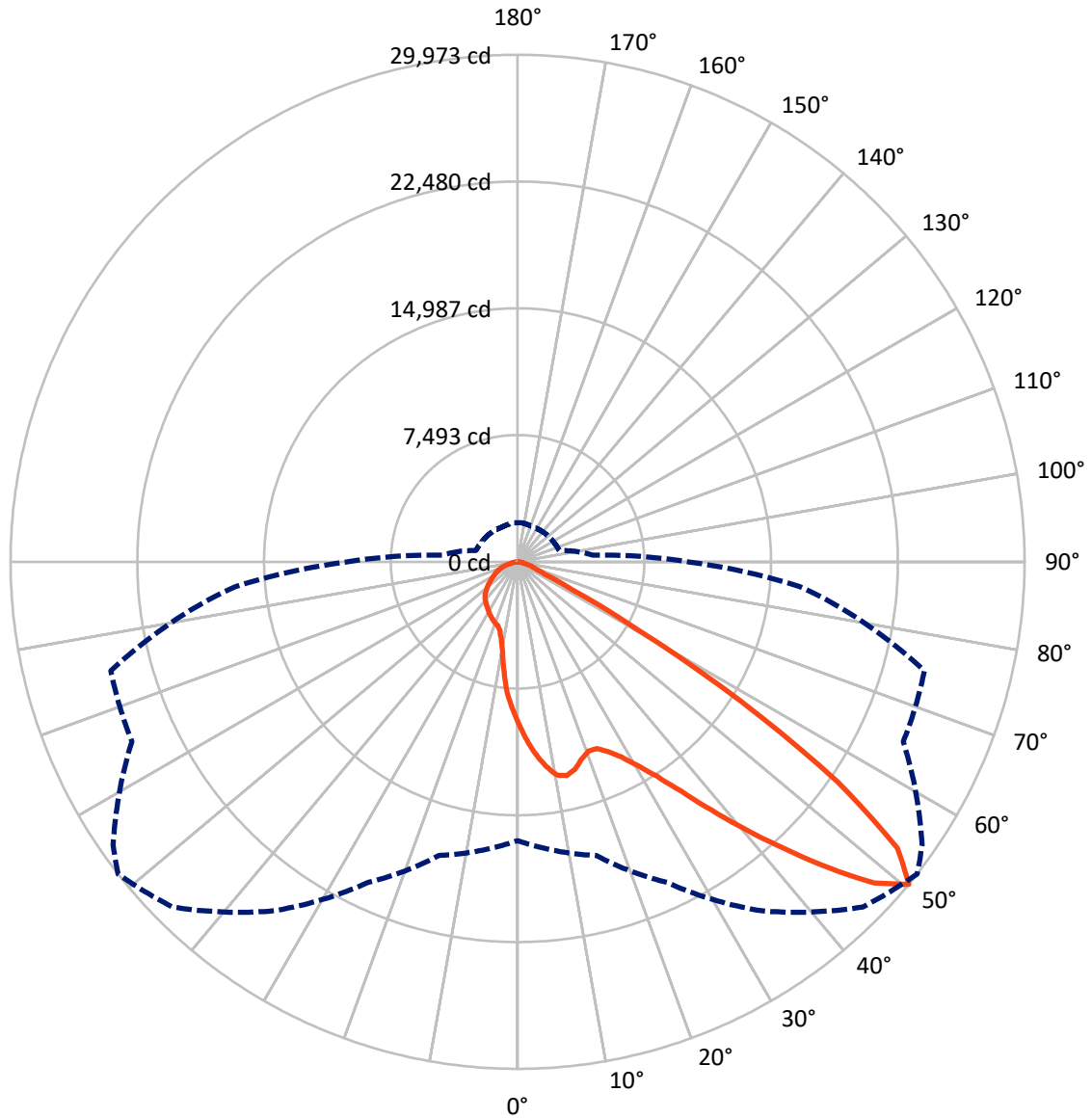
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 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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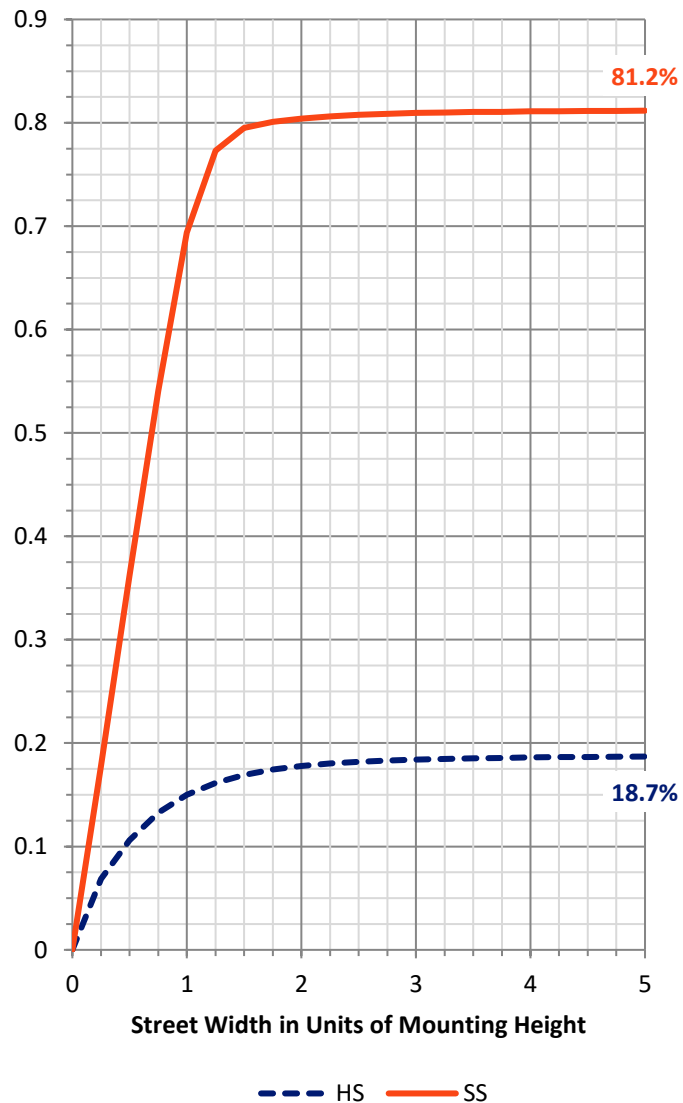
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6404.4	0.0	6404.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	27665.6	0.0	27665.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	34070.0	0.0	34070.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	885.2	2.6
10°-20°	2372.5	7.0
20°-30°	3996.4	11.7
30°-40°	6706.2	19.7
40°-50°	10258.9	30.1
50°-60°	7479.6	22.0
60°-70°	1664.6	4.9
70°-80°	600.4	1.8
80°-90°	106.3	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°	34070.0	100.0
0°-180°	34070.0	100.0

Coefficient of Utilization

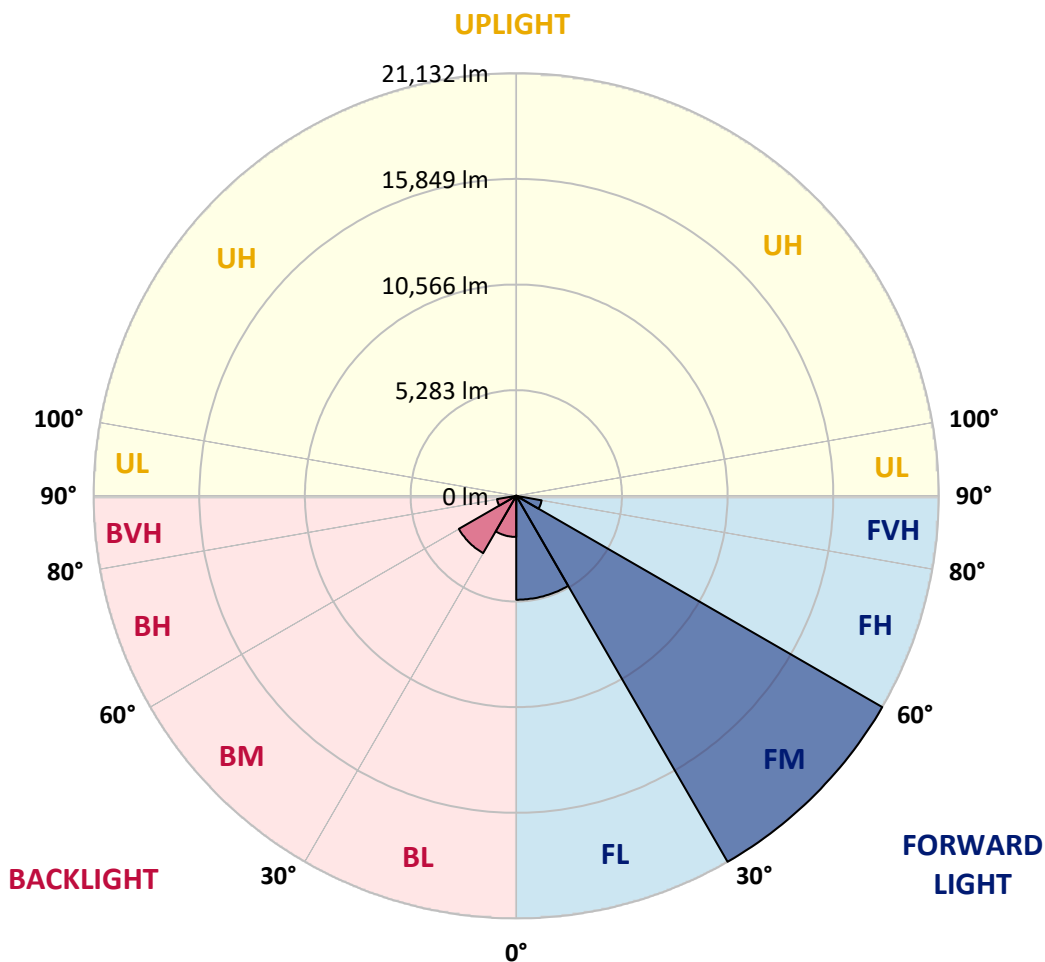


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5196.8	15.3			
FM (30°-60°)	21131.9	62.0			
FH (60°-80°)	1289.2	3.8			G1/1800
FVH (80°-90°)	47.6	0.1			G1/100
BL (0°-30°)	2057.2	6.0	B3/2500		
BM (30°-60°)	3312.8	9.7	B3/5000		
BH (60°-80°)	975.7	2.9	B2/1000		G2/1000
BVH (80°-90°)	58.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	9603.8	9603.8	9603.8	9603.8	9603.8	9603.8	9603.8	9603.8	9603.8	9603.8	9603.8
2.5°	11307.7	11090.1	11114.8	10958.7	10790.4	10741.1	10568.7	10404.4	10281.2	10018.5	9776.2
5°	12358.8	12293.2	12194.6	12071.4	11944.1	11632.1	11455.5	11250.2	10798.6	10392.1	9989.7
7.5°	12510.8	12498.4	12551.8	12551.8	12597.0	12477.9	12227.5	12083.7	11603.4	10942.3	10195.0
10°	11443.2	11480.2	11738.9	12075.5	12543.6	12868.0	12826.9	12790.0	12264.4	11361.1	10437.3
12.5°	10593.3	10511.2	10663.1	10950.5	11652.6	12436.9	12966.5	12970.6	12835.1	12030.4	10613.8
15°	10112.9	10170.4	10211.4	10346.9	10876.6	11784.0	12716.1	12991.2	13586.5	12502.6	10893.0
17.5°	10420.8	10227.9	10219.7	10252.5	10523.5	11205.1	12252.1	12724.3	13997.1	13110.2	11237.9
20°	10823.2	10819.1	10704.2	10663.1	10659.0	11266.7	11948.3	12588.8	14214.7	13898.6	11586.9
22.5°	11529.4	11529.4	11340.6	11250.2	11057.3	11554.1	11989.3	12424.5	14576.0	14440.6	11755.3
25°	12712.0	12519.0	12194.6	11972.9	11862.0	12038.6	12424.5	12814.6	14892.2	15015.4	12104.3
27.5°	13804.1	13500.3	13340.2	12958.3	12810.5	12707.9	13061.0	13455.1	15261.7	15910.5	12293.2
30°	15044.1	14990.7	14703.3	14210.6	13845.2	13656.3	13980.7	14370.8	15939.2	16826.1	12728.4
32.5°	17261.3	16776.8	16386.8	15783.2	15187.8	14785.5	15105.7	15364.4	17064.2	17782.8	13204.7
35°	19655.1	19499.1	18825.7	17737.6	16826.1	16464.8	16653.6	16846.6	18374.0	19244.5	14005.3
37.5°	22007.8	21794.3	21240.0	20324.3	19215.7	18480.8	18616.3	18842.1	19844.0	21215.3	14982.5
40°	23699.4	23436.6	23157.4	23021.9	21921.6	20915.6	20837.6	20895.1	21831.2	23063.0	16066.5
42.5°	23822.6	24147.0	24233.2	24779.3	24520.6	23695.3	23214.9	23227.2	23728.2	24890.1	17162.8
45°	23563.9	23264.2	23900.6	25391.1	26245.1	26631.1	25822.2	25719.5	24902.5	25949.5	17708.9
47.5°	20849.9	20932.0	22007.8	24364.6	26832.2	28556.7	28367.9	28027.1	25530.7	25912.5	17622.6
50°	16481.2	16978.0	17975.8	20911.5	25189.9	28860.6	29973.3	29184.9	25157.0	24894.2	16744.0
52.5°	10975.1	11180.4	11837.4	15627.2	20254.5	25797.6	28125.6	28306.3	24812.1	23559.8	15631.3
55°	4886.1	4869.6	5793.5	8162.6	12707.9	19630.4	22980.9	24081.3	23485.9	22200.8	14547.3
57.5°	2069.4	2139.2	2516.9	3527.0	6249.2	11845.6	15569.7	16534.6	18062.0	18230.3	11159.9
60°	1400.1	1408.3	1511.0	1765.5	2615.5	5563.5	8166.7	9324.6	10416.7	10342.8	5920.7
62.5°	1100.4	1129.1	1207.1	1309.8	1552.0	2525.1	3654.3	4298.9	4368.7	3674.8	2245.9
65°	940.3	944.4	1022.4	1108.6	1215.4	1469.9	1761.4	1794.3	1814.8	1749.1	1650.6
67.5°	776.0	784.2	845.8	944.4	1042.9	1125.0	1207.1	1248.2	1342.6	1527.4	1502.8
70°	615.9	628.2	681.6	763.7	854.0	903.3	1006.0	1042.9	1129.1	1272.8	1330.3
72.5°	468.1	472.2	517.3	574.8	656.9	706.2	792.4	833.5	891.0	1014.2	1067.5
75°	336.7	349.0	381.9	410.6	422.9	455.8	537.9	583.0	665.2	718.5	722.6
77.5°	176.6	184.8	193.0	193.0	234.0	295.6	349.0	373.6	431.1	472.2	451.7
80°	69.8	73.9	94.4	127.3	164.2	213.5	250.5	262.8	312.1	336.7	349.0
82.5°	41.1	45.2	61.6	90.3	119.1	151.9	180.7	193.0	225.8	254.6	262.8
85°	20.5	24.6	37.0	57.5	78.0	94.4	90.3	86.2	86.2	82.1	86.2
87.5°	8.2	8.2	12.3	12.3	12.3	16.4	20.5	20.5	20.5	24.6	24.6
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°	9603.8	9603.8	9603.8	9603.8	9603.8	9603.8	9603.8	9603.8	9603.8	9603.8	9603.8
2.5°	9616.1	9451.8	9299.9	9020.7	8716.9	8630.7	8277.6	8150.3	8059.9	7953.2	7920.3
5°	9665.4	9447.7	8959.1	8396.6	7949.1	7374.2	6996.5	6590.0	6294.4	6220.5	6200.0
7.5°	9768.0	9394.4	8552.7	7702.7	6787.1	6007.0	5411.6	5091.4	4808.0	4791.6	4762.9
10°	9883.0	9234.2	8109.2	6774.8	5604.6	4881.9	4524.7	4385.1	4315.3	4298.9	4290.7
12.5°	9977.4	9201.4	7612.4	5871.5	4767.0	4331.8	4225.0	4212.7	4241.4	4249.6	4266.1
15°	10018.5	9070.0	7012.9	5062.6	4245.5	4085.4	4130.6	4179.8	4200.4	4253.7	4212.7
17.5°	10096.5	8901.7	6273.9	4422.1	3954.0	3982.8	4060.8	4118.2	4151.1	4188.0	4134.7
20°	10137.5	8749.7	5580.0	4040.2	3851.4	3904.7	4011.5	4056.7	4097.7	4114.1	4052.6
22.5°	10100.6	8437.7	4968.2	3732.3	3752.8	3822.6	3917.1	3966.3	3941.7	3876.0	3839.0
25°	10002.0	7998.3	4331.8	3535.2	3613.2	3736.4	3810.3	3773.3	3728.2	3691.2	3678.9
27.5°	9997.9	7460.5	3871.9	3354.5	3494.1	3662.5	3637.9	3605.0	3625.5	3596.8	3563.9
30°	10018.5	6939.0	3494.1	3251.9	3407.9	3490.0	3518.8	3485.9	3510.6	3457.2	3473.6
32.5°	9911.7	6429.9	3247.8	3132.8	3305.3	3301.2	3395.6	3420.2	3362.8	3251.9	3268.3
35°	9956.9	6019.3	3038.4	3079.4	3190.3	3190.3	3264.2	3235.5	3083.6	3017.9	3034.3
37.5°	10268.9	5616.9	2935.7	3005.5	3079.4	3112.3	3087.7	2964.5	2927.5	2927.5	2935.7
40°	10564.6	5272.0	2874.2	2989.1	2976.8	2997.3	2816.7	2829.0	2829.0	2833.1	2812.6
42.5°	10827.3	5038.0	2824.9	2890.6	2911.1	2804.3	2693.5	2681.2	2709.9	2705.8	2689.4
45°	10921.8	4845.0	2755.1	2779.7	2796.1	2619.6	2566.2	2541.6	2574.4	2586.7	2603.2
47.5°	10560.4	4684.9	2677.1	2627.8	2594.9	2480.0	2410.2	2365.0	2406.1	2475.9	2492.3
50°	10096.5	4475.5	2553.9	2459.5	2389.7	2340.4	2291.1	2245.9	2274.7	2324.0	2311.6
52.5°	9410.8	4147.0	2397.9	2299.3	2180.2	2192.6	2147.4	2122.8	2139.2	2139.2	2126.9
55°	8433.6	3407.9	2135.1	2065.3	1966.7	1999.6	2007.8	1975.0	1942.1	1970.8	1946.2
57.5°	5756.5	2406.1	1905.2	1905.2	1806.6	1851.8	1847.7	1769.7	1691.6	1699.9	1683.4
60°	3329.9	1917.5	1757.3	1740.9	1638.3	1675.2	1683.4	1630.1	1511.0	1519.2	1502.8
62.5°	1892.8	1638.3	1535.6	1511.0	1490.5	1523.3	1523.3	1453.5	1350.9	1359.1	1342.6
65°	1609.5	1519.2	1371.4	1367.3	1359.1	1367.3	1334.4	1260.5	1170.2	1133.2	1137.3
67.5°	1461.7	1404.2	1260.5	1223.6	1198.9	1194.8	1133.2	1063.4	1022.4	989.5	985.4
70°	1281.0	1235.9	1129.1	1079.9	1055.2	997.7	936.2	891.0	833.5	817.1	833.5
72.5°	1014.2	1010.1	969.0	915.6	862.2	817.1	763.7	702.1	648.7	636.4	607.7
75°	702.1	710.3	718.5	710.3	665.2	607.7	546.1	496.8	431.1	394.2	386.0
77.5°	459.9	472.2	484.5	468.1	439.3	386.0	344.9	283.3	234.0	205.3	201.2
80°	336.7	353.1	361.3	349.0	316.2	275.1	229.9	180.7	143.7	119.1	119.1
82.5°	258.7	275.1	283.3	262.8	229.9	197.1	164.2	127.3	98.5	78.0	73.9
85°	90.3	86.2	102.6	106.8	127.3	119.1	98.5	73.9	57.5	41.1	37.0
87.5°	24.6	24.6	28.7	28.7	24.6	20.5	20.5	20.5	16.4	12.3	12.3
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)