

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: P527942

Luminaire Tested: **GALN-SA3A-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527942
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-730-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 11219 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

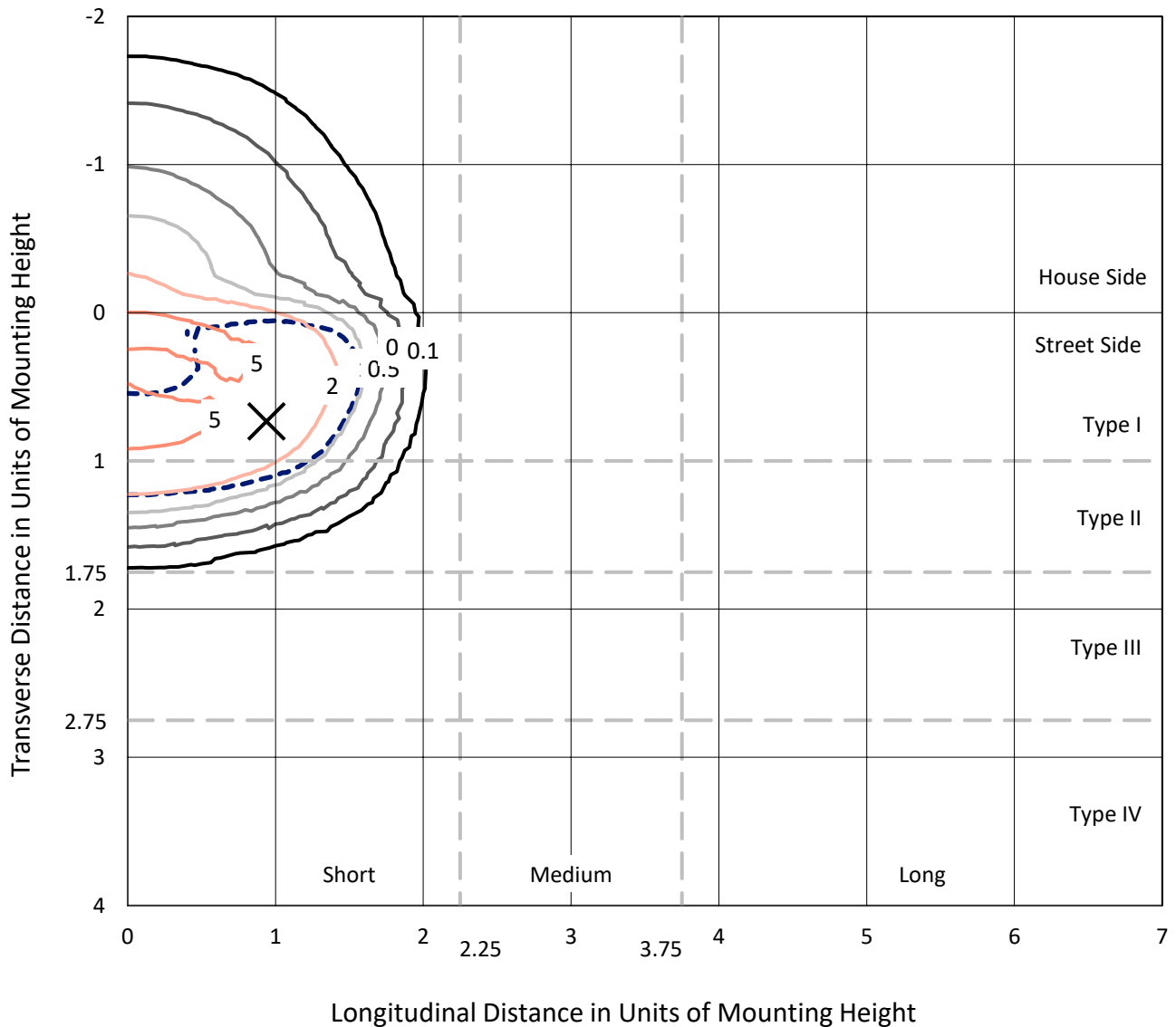
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

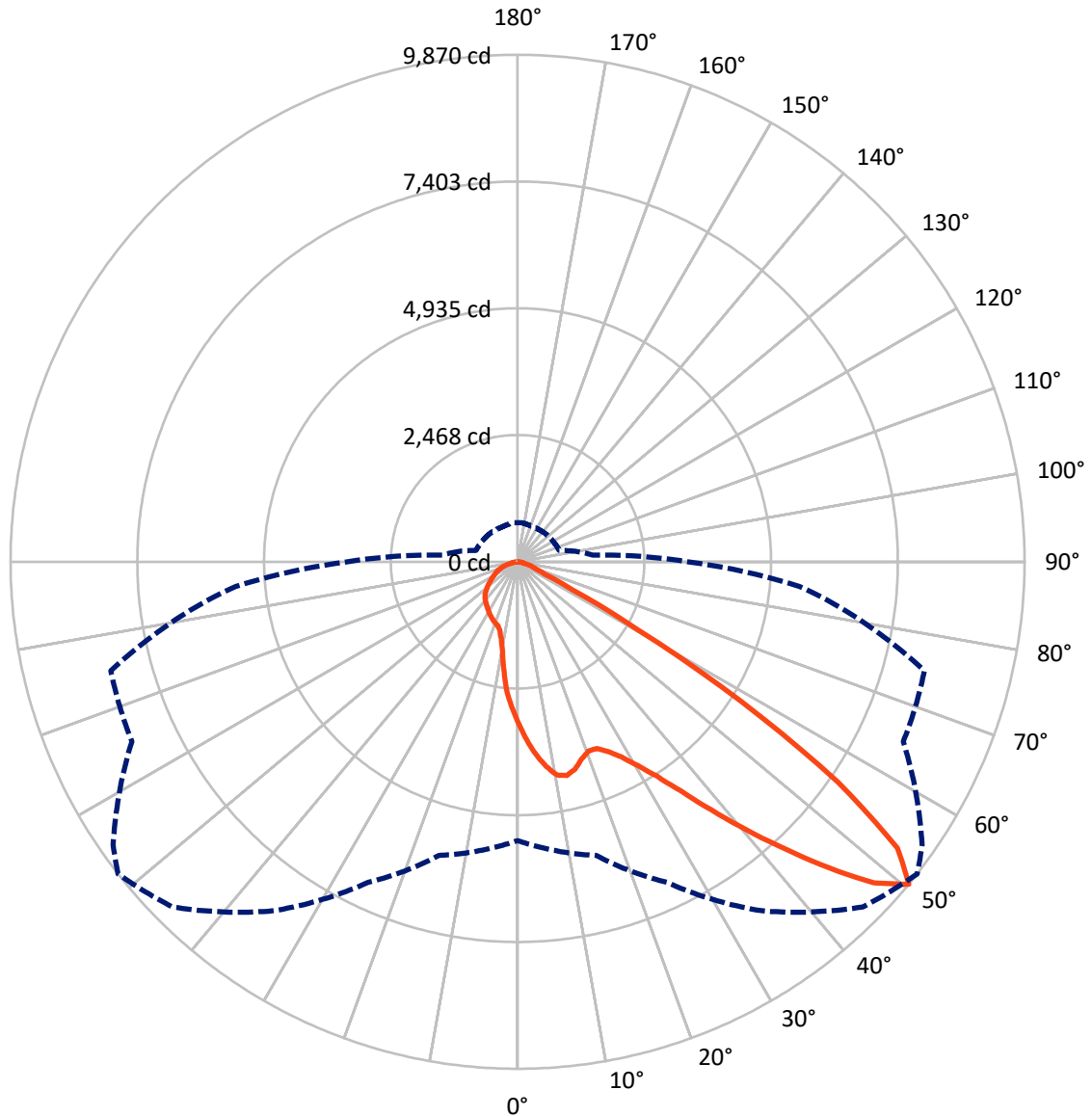
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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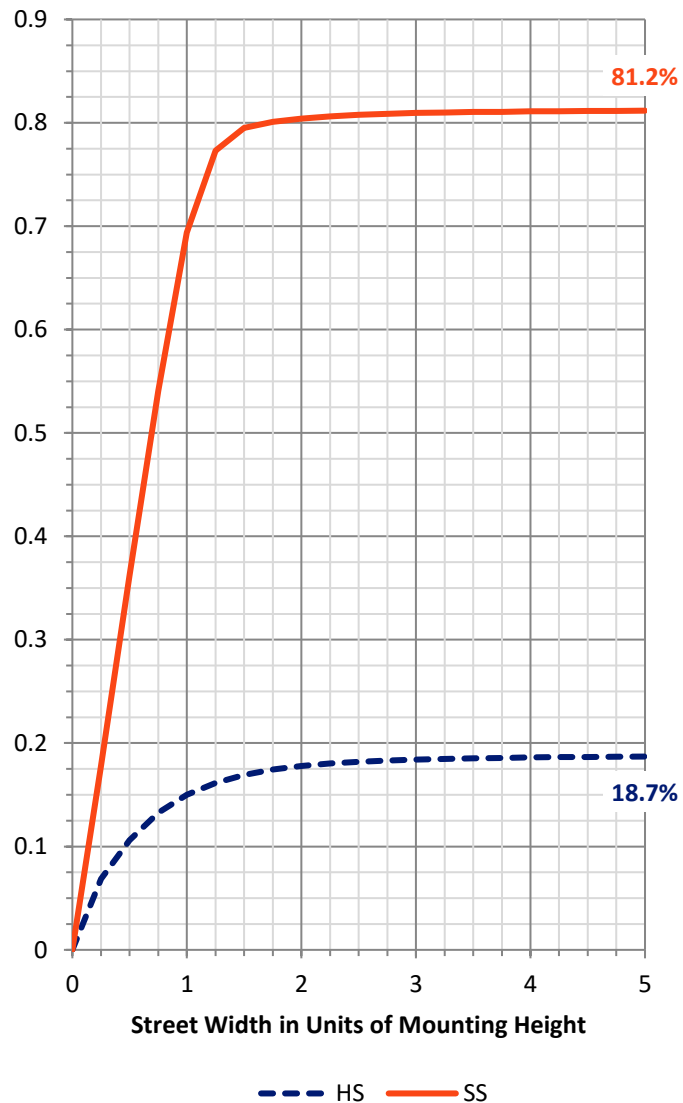
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2108.9	0.0	2108.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9110.1	0.0	9110.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	11219.0	0.0	11219.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.5	2.6
10°-20°	781.2	7.0
20°-30°	1316.0	11.7
30°-40°	2208.3	19.7
40°-50°	3378.2	30.1
50°-60°	2463.0	22.0
60°-70°	548.1	4.9
70°-80°	197.7	1.8
80°-90°	35.0	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°	11219.0	100.0
0°-180°	11219.0	100.0

Coefficient of Utilization

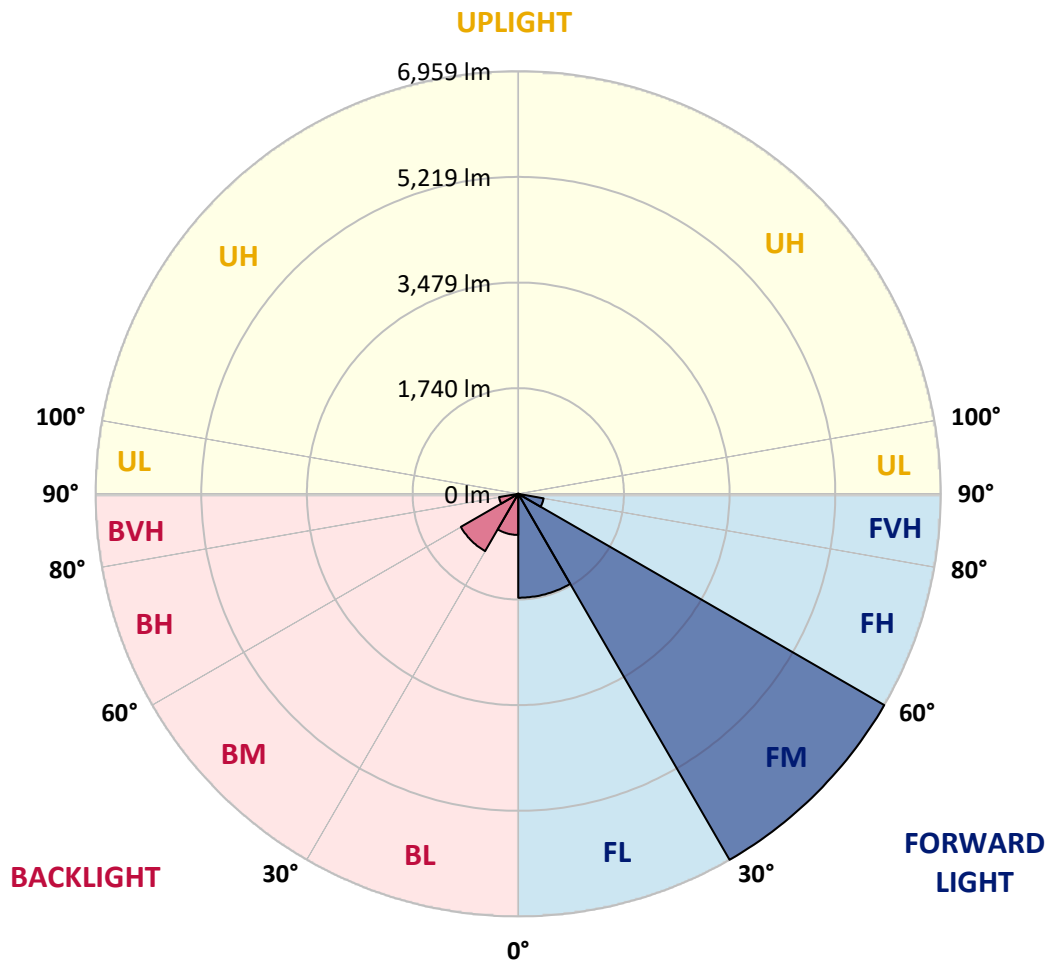


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1711.3	15.3			
FM (30°-60°)	6958.6	62.0			
FH (60°-80°)	424.5	3.8			G0/660
FVH (80°-90°)	15.7	0.1			G1/100
BL (0°-30°)	677.4	6.0	B2/1000		
BM (30°-60°)	1090.9	9.7	B2/2500		
BH (60°-80°)	321.3	2.9	B1/500		G1/500
BVH (80°-90°)	19.3	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°	3162.5	3162.5	3162.5	3162.5	3162.5	3162.5	3162.5	3162.5	3162.5	3162.5	3162.5
2.5°	3723.6	3651.9	3660.0	3608.6	3553.2	3537.0	3480.2	3426.1	3385.5	3299.0	3219.2
5°	4069.7	4048.0	4015.6	3975.0	3933.1	3830.4	3772.2	3704.6	3555.9	3422.0	3289.5
7.5°	4119.7	4115.6	4133.2	4133.2	4148.1	4108.9	4026.4	3979.1	3820.9	3603.2	3357.1
10°	3768.2	3780.3	3865.5	3976.4	4130.5	4237.3	4223.8	4211.6	4038.6	3741.1	3436.9
12.5°	3488.3	3461.3	3511.3	3605.9	3837.1	4095.4	4269.8	4271.1	4226.5	3961.5	3495.1
15°	3330.1	3349.0	3362.6	3407.2	3581.6	3880.4	4187.3	4277.9	4473.9	4117.0	3587.0
17.5°	3431.5	3368.0	3365.3	3376.1	3465.3	3689.8	4034.5	4190.0	4609.1	4317.1	3700.6
20°	3564.0	3562.7	3524.8	3511.3	3509.9	3710.0	3934.5	4145.4	4680.8	4576.7	3815.5
22.5°	3796.6	3796.6	3734.4	3704.6	3641.1	3804.7	3948.0	4091.3	4799.8	4755.2	3870.9
25°	4186.0	4122.4	4015.6	3942.6	3906.1	3964.2	4091.3	4219.8	4903.9	4944.5	3985.8
27.5°	4545.6	4445.5	4392.8	4267.1	4218.4	4184.6	4300.9	4430.7	5025.6	5239.2	4048.0
30°	4953.9	4936.3	4841.7	4679.5	4559.1	4496.9	4603.7	4732.2	5248.7	5540.7	4191.4
32.5°	5684.0	5524.5	5396.0	5197.3	5001.2	4868.7	4974.2	5059.4	5619.1	5855.7	4348.2
35°	6472.3	6420.9	6199.2	5840.9	5540.7	5421.7	5483.9	5547.5	6050.4	6337.1	4611.9
37.5°	7247.0	7176.7	6994.2	6692.7	6327.6	6085.6	6130.2	6204.6	6534.5	6986.1	4933.6
40°	7804.0	7717.5	7625.6	7581.0	7218.6	6887.4	6861.7	6880.6	7188.9	7594.5	5290.6
42.5°	7844.6	7951.4	7979.8	8159.6	8074.5	7802.7	7644.5	7648.6	7813.5	8196.1	5651.6
45°	7759.4	7660.7	7870.3	8361.1	8642.3	8769.4	8503.1	8469.3	8200.2	8545.0	5831.4
47.5°	6865.7	6892.8	7247.0	8023.1	8835.7	9403.5	9341.3	9229.1	8407.1	8532.8	5803.0
50°	5427.1	5590.7	5919.3	6886.0	8294.8	9503.6	9870.0	9610.4	8284.0	8197.5	5513.7
52.5°	3614.0	3681.6	3898.0	5145.9	6669.7	8494.9	9261.6	9321.0	8170.5	7758.1	5147.3
55°	1608.9	1603.5	1907.7	2687.9	4184.6	6464.2	7567.4	7929.8	7733.7	7310.5	4790.3
57.5°	681.4	704.4	828.8	1161.4	2057.8	3900.7	5127.0	5444.7	5947.7	6003.1	3674.9
60°	461.0	463.8	497.6	581.4	861.3	1832.0	2689.2	3070.5	3430.2	3405.8	1949.7
62.5°	362.3	371.8	397.5	431.3	511.1	831.5	1203.3	1415.6	1438.6	1210.1	739.6
65°	309.6	311.0	336.7	365.1	400.2	484.0	580.0	590.8	597.6	576.0	543.5
67.5°	255.5	258.2	278.5	311.0	343.4	370.5	397.5	411.0	442.1	503.0	494.9
70°	202.8	206.9	224.4	251.5	281.2	297.5	331.3	343.4	371.8	419.1	438.1
72.5°	154.1	155.5	170.4	189.3	216.3	232.6	260.9	274.5	293.4	334.0	351.5
75°	110.9	114.9	125.7	135.2	139.3	150.1	177.1	192.0	219.0	236.6	238.0
77.5°	58.1	60.8	63.5	63.5	77.1	97.3	114.9	123.0	142.0	155.5	148.7
80°	23.0	24.3	31.1	41.9	54.1	70.3	82.5	86.5	102.8	110.9	114.9
82.5°	13.5	14.9	20.3	29.7	39.2	50.0	59.5	63.5	74.4	83.8	86.5
85°	6.8	8.1	12.2	18.9	25.7	31.1	29.7	28.4	28.4	27.0	28.4
87.5°	2.7	2.7	4.1	4.1	4.1	5.4	6.8	6.8	6.8	8.1	8.1
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°	3162.5	3162.5	3162.5	3162.5	3162.5	3162.5	3162.5	3162.5	3162.5	3162.5	3162.5
2.5°	3166.5	3112.4	3062.4	2970.5	2870.4	2842.0	2725.7	2683.8	2654.1	2618.9	2608.1
5°	3182.7	3111.1	2950.2	2764.9	2617.6	2428.3	2303.9	2170.0	2072.7	2048.4	2041.6
7.5°	3216.5	3093.5	2816.3	2536.4	2234.9	1978.1	1782.0	1676.5	1583.3	1577.8	1568.4
10°	3254.4	3040.8	2670.3	2230.9	1845.6	1607.6	1490.0	1444.0	1421.0	1415.6	1412.9
12.5°	3285.5	3029.9	2506.7	1933.4	1569.7	1426.4	1391.3	1387.2	1396.7	1399.4	1404.8
15°	3299.0	2986.7	2309.3	1667.1	1398.0	1345.3	1360.2	1376.4	1383.1	1400.7	1387.2
17.5°	3324.7	2931.2	2065.9	1456.2	1302.0	1311.5	1337.2	1356.1	1366.9	1379.1	1361.5
20°	3338.2	2881.2	1837.4	1330.4	1268.2	1285.8	1321.0	1335.8	1349.3	1354.8	1334.5
22.5°	3326.0	2778.5	1636.0	1229.0	1235.8	1258.8	1289.9	1306.1	1298.0	1276.3	1264.2
25°	3293.6	2633.8	1426.4	1164.1	1189.8	1230.4	1254.7	1242.5	1227.7	1215.5	1211.4
27.5°	3292.2	2456.7	1275.0	1104.6	1150.6	1206.0	1197.9	1187.1	1193.9	1184.4	1173.6
30°	3299.0	2285.0	1150.6	1070.8	1122.2	1149.2	1158.7	1147.9	1156.0	1138.4	1143.8
32.5°	3263.9	2117.3	1069.5	1031.6	1088.4	1087.0	1118.1	1126.3	1107.3	1070.8	1076.2
35°	3278.7	1982.1	1000.5	1014.0	1050.5	1050.5	1074.9	1065.4	1015.4	993.8	999.2
37.5°	3381.5	1849.6	966.7	989.7	1014.0	1024.9	1016.7	976.2	964.0	964.0	966.7
40°	3478.8	1736.0	946.4	984.3	980.2	987.0	927.5	931.6	931.6	932.9	926.2
42.5°	3565.4	1659.0	930.2	951.8	958.6	923.5	886.9	882.9	892.4	891.0	885.6
45°	3596.5	1595.4	907.2	915.3	920.7	862.6	845.0	836.9	847.7	851.8	857.2
47.5°	3477.5	1542.7	881.5	865.3	854.5	816.6	793.7	778.8	792.3	815.3	820.7
50°	3324.7	1473.7	841.0	809.9	786.9	770.7	754.4	739.6	749.0	765.3	761.2
52.5°	3098.9	1365.6	789.6	757.1	717.9	722.0	707.1	699.0	704.4	704.4	700.4
55°	2777.1	1122.2	703.1	680.1	647.6	658.4	661.2	650.3	639.5	649.0	640.9
57.5°	1895.6	792.3	627.4	627.4	594.9	609.8	608.4	582.7	557.0	559.7	554.3
60°	1096.5	631.4	578.7	573.3	539.5	551.6	554.3	536.8	497.6	500.3	494.9
62.5°	623.3	539.5	505.7	497.6	490.8	501.6	501.6	478.6	444.8	447.5	442.1
65°	530.0	500.3	451.6	450.2	447.5	450.2	439.4	415.1	385.3	373.2	374.5
67.5°	481.3	462.4	415.1	402.9	394.8	393.4	373.2	350.2	336.7	325.8	324.5
70°	421.8	407.0	371.8	355.6	347.5	328.5	308.3	293.4	274.5	269.1	274.5
72.5°	334.0	332.6	319.1	301.5	283.9	269.1	251.5	231.2	213.6	209.6	200.1
75°	231.2	233.9	236.6	233.9	219.0	200.1	179.8	163.6	142.0	129.8	127.1
77.5°	151.4	155.5	159.5	154.1	144.7	127.1	113.6	93.3	77.1	67.6	66.3
80°	110.9	116.3	119.0	114.9	104.1	90.6	75.7	59.5	47.3	39.2	39.2
82.5°	85.2	90.6	93.3	86.5	75.7	64.9	54.1	41.9	32.4	25.7	24.3
85°	29.7	28.4	33.8	35.2	41.9	39.2	32.4	24.3	18.9	13.5	12.2
87.5°	8.1	8.1	9.5	9.5	8.1	6.8	6.8	6.8	5.4	4.1	4.1
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)