

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: P533770

Luminaire Tested: **GALN-SA9B-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533770
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-727-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36565 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: B4 - U0 - G3

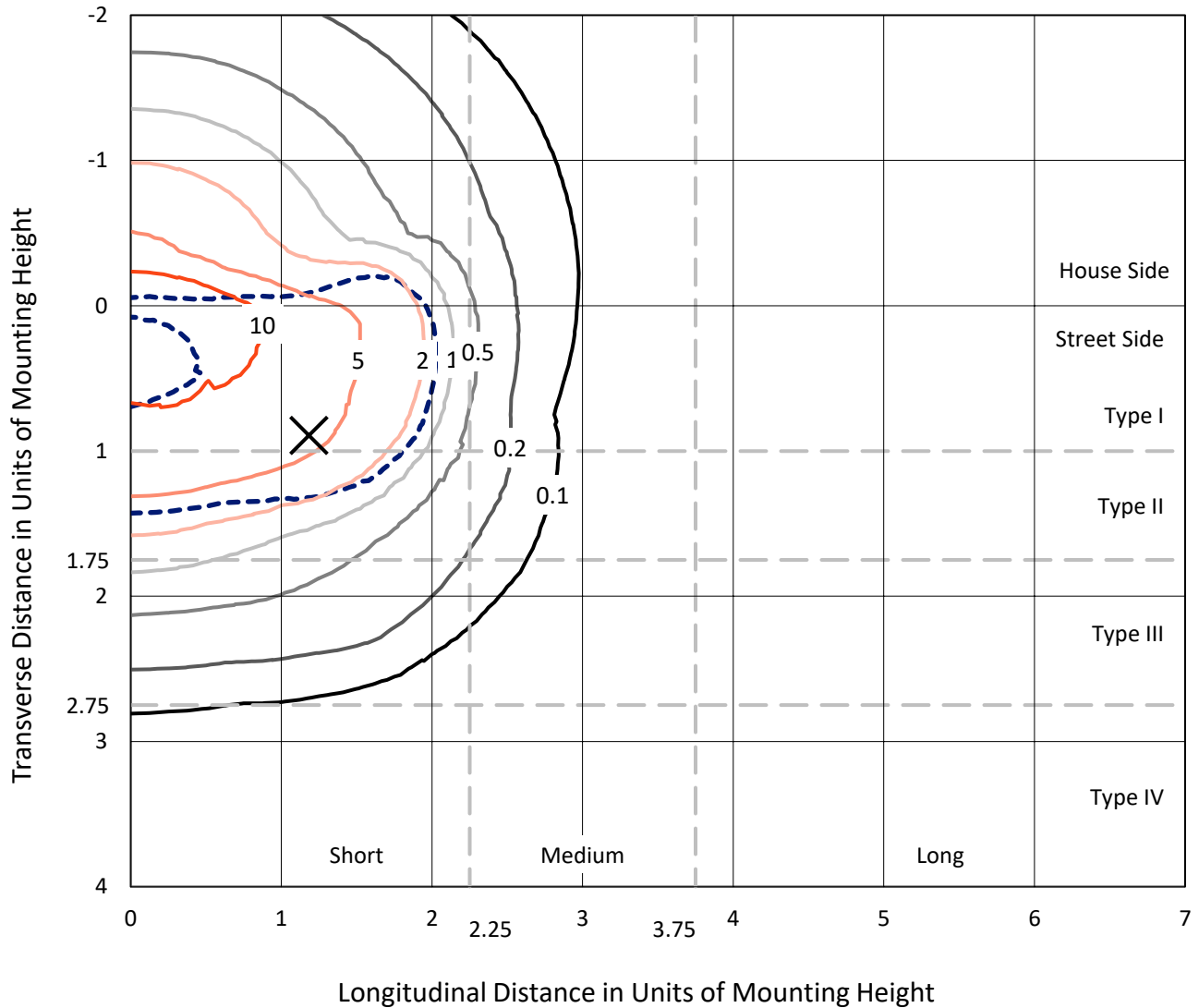
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

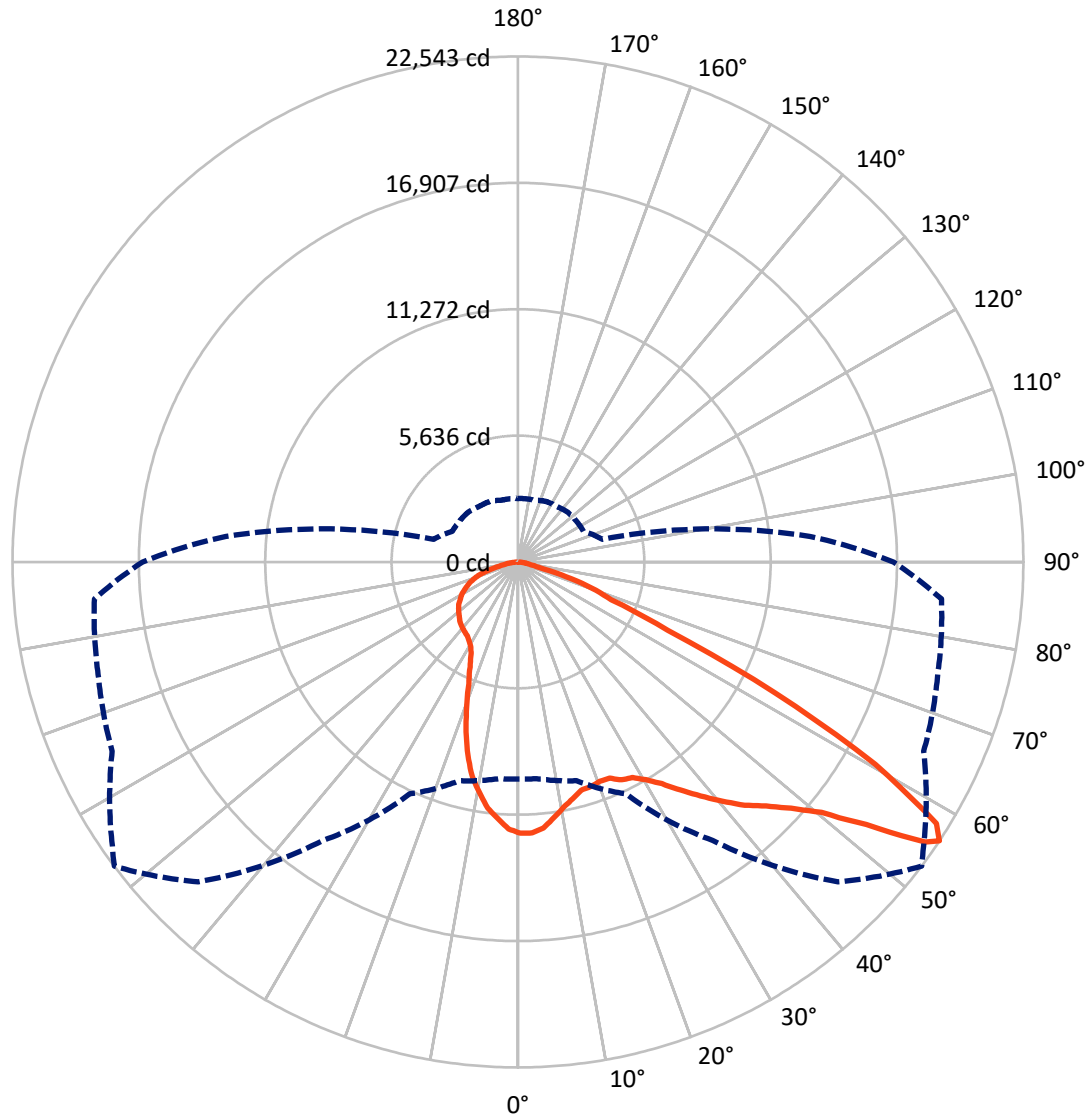
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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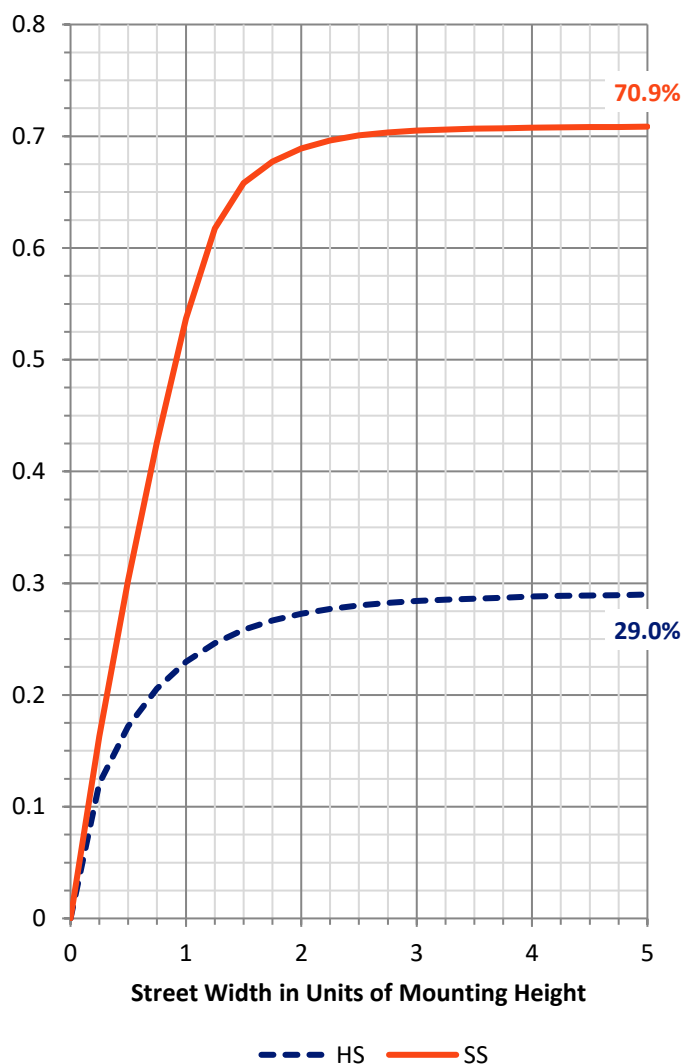
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10670.5	0.0	10670.5
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	25894.5	0.0	25894.5
	% Fixture	70.8	0.0	70.8
Total	Lumens	36565.0	0.0	36565.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1070.9	2.9
10°-20°	2674.7	7.3
20°-30°	3944.2	10.8
30°-40°	5635.4	15.4
40°-50°	7756.4	21.2
50°-60°	9166.0	25.1
60°-70°	4884.9	13.4
70°-80°	1239.3	3.4
80°-90°	193.2	0.5
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°	36565.0	100.0
0°-180°	36565.0	100.0

Coefficient of Utilization



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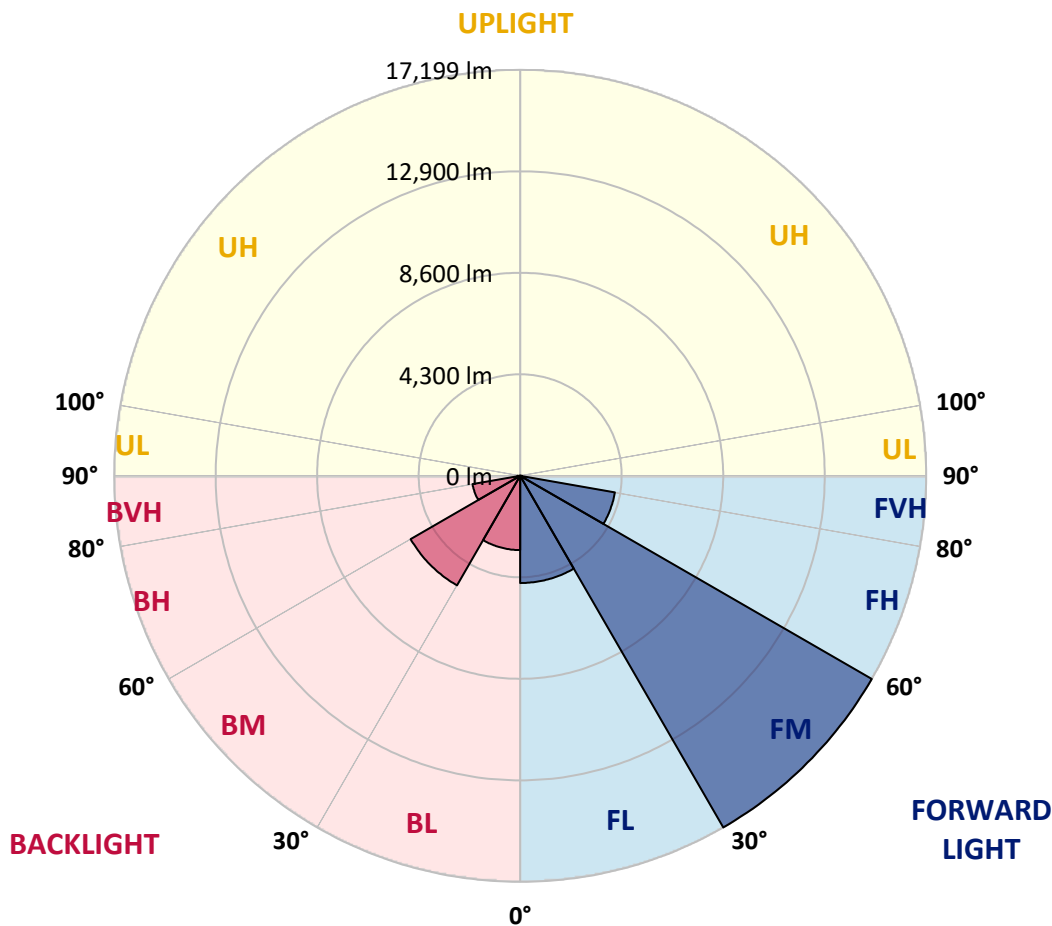
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4542.7	12.4			
FM (30°-60°)	17199.5	47.0			
FH (60°-80°)	4074.7	11.1			G2/5000
FVH (80°-90°)	77.7	0.2			G1/100
BL (0°-30°)	3147.2	8.6	B4/5000		
BM (30°-60°)	5358.3	14.7	B4/8500		
BH (60°-80°)	2049.4	5.6	B3/2500		G3/2500
BVH (80°-90°)	115.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	12097.1	12097.1	12097.1	12097.1	12097.1	12097.1	12097.1	12097.1	12097.1	12097.1	12097.1
2.5°	11947.0	11843.8	11904.8	11881.4	12073.7	12130.0	12101.8	12125.3	12233.2	12181.6	12073.7
5°	11163.7	11309.1	11337.3	11407.6	11520.2	11740.7	11914.2	11961.1	12012.7	12251.9	12228.5
7.5°	10450.7	10549.2	10497.6	10704.0	10947.9	11304.4	11515.5	11553.0	12026.8	12158.1	12256.6
10°	10000.4	9901.9	10136.5	10192.7	10469.5	10877.6	11130.9	11285.7	11717.2	12237.9	12298.8
12.5°	9583.0	9550.1	9690.8	9850.3	10159.9	10582.1	10840.1	10901.0	11567.1	12115.9	12402.0
15°	9273.4	9235.9	9376.6	9493.8	9855.0	10230.3	10558.6	10732.2	11402.9	12045.5	12312.9
17.5°	9029.5	9024.8	9104.5	9315.6	9686.2	10000.4	10530.5	10539.9	11318.5	12153.4	12388.0
20°	9015.4	9010.7	9024.8	9259.3	9597.0	9981.7	10441.3	10525.8	11318.5	12078.4	12392.7
22.5°	9132.7	9057.6	9142.0	9292.1	9536.1	10014.5	10474.2	10661.8	11590.6	12448.9	12603.7
25°	9320.3	9339.1	9386.0	9437.6	9578.3	10089.6	10765.0	10919.8	11909.5	12767.9	12894.6
27.5°	9662.7	9653.3	9672.1	9700.2	9822.2	10159.9	10882.3	11281.0	12575.6	13335.5	13208.8
30°	10164.6	10131.8	10206.8	10305.3	10192.7	10385.1	11271.6	11571.8	13194.8	13907.7	13560.6
32.5°	10619.6	10741.6	10882.3	10924.5	10788.5	10826.0	11787.6	12092.5	13710.7	14611.3	13992.2
35°	11187.2	11285.7	11473.3	11604.6	11581.2	11468.6	12491.2	12894.6	14456.5	15127.3	14447.2
37.5°	11740.7	11857.9	12167.5	12556.8	12341.1	12289.5	13241.7	13574.7	14686.4	15404.0	14780.2
40°	12631.9	12627.2	13161.9	13363.6	13555.9	13466.8	14020.3	14132.9	14808.3	15343.1	14789.6
42.5°	13677.9	13612.2	14156.3	14470.6	14719.2	14728.6	14831.8	14794.3	14864.6	15033.5	14691.1
45°	14672.3	14813.0	15361.8	15924.7	16173.3	16201.4	15516.6	15446.3	14963.1	14944.4	14503.4
47.5°	15887.2	15920.0	16370.3	17111.4	17688.4	17491.4	16403.1	16248.4	15394.7	15540.1	14817.7
50°	15957.5	16201.4	16604.8	17477.3	19250.4	19198.8	17552.3	17261.5	16088.9	16384.4	15694.9
52.5°	14484.7	14428.4	14906.8	16332.8	19133.1	20896.8	19456.7	18762.5	17580.5	17355.3	17116.1
55°	11037.1	11168.4	11590.6	13030.6	16614.2	20920.2	22050.7	21483.1	19175.3	18790.7	18513.9
56°	9681.5	9700.2	10098.9	11412.3	15160.1	20174.4	22543.2	22083.5	19968.0	19381.7	18959.5
57.5°	8025.7	7917.8	8124.2	8841.8	12796.0	18598.4	22003.8	22454.1	20896.8	20019.6	19433.3
60°	6318.3	6294.8	6210.4	6341.7	8086.7	14010.9	18316.9	19330.1	20803.0	19419.2	18612.4
62.5°	5159.7	5042.4	5211.3	5398.9	5619.4	8691.7	12871.1	13466.8	16515.7	15502.5	13982.8
65°	4001.1	3944.8	4155.9	4765.7	4897.0	5520.9	7331.5	7791.1	9751.8	9578.3	8433.8
67.5°	2753.4	2762.8	2945.7	3874.5	4540.5	4484.2	4488.9	4728.2	5089.3	3780.7	3292.8
70°	1744.9	1740.2	1838.7	2495.4	3654.0	3691.5	3503.9	3433.5	3255.3	1970.1	2087.3
72.5°	1121.1	1088.2	1139.8	1379.0	1890.3	2185.8	2251.5	2293.7	1885.6	1547.9	1679.2
75°	633.2	600.4	581.6	642.6	745.8	863.1	947.5	975.7	1092.9	1172.7	1243.0
77.5°	192.3	173.6	211.1	281.4	370.6	497.2	605.1	623.9	736.4	830.2	900.6
80°	84.4	93.8	131.3	187.6	262.7	351.8	426.8	455.0	530.0	600.4	619.2
82.5°	51.6	56.3	89.1	126.6	182.9	248.6	304.9	314.3	389.3	445.6	459.7
85°	18.8	23.5	46.9	75.1	117.3	159.5	159.5	173.6	159.5	159.5	173.6
87.5°	0.0	0.0	4.7	9.4	9.4	14.1	18.8	18.8	23.5	28.1	32.8
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°	12097.1	12097.1	12097.1	12097.1	12097.1	12097.1	12097.1	12097.1	12097.1	12097.1	12097.1
2.5°	12130.0	12106.5	12069.0	11933.0	11918.9	11876.7	11642.2	11604.6	11642.2	11529.6	11539.0
5°	12106.5	12176.9	11895.4	11759.4	11506.1	11323.2	11112.1	11004.2	10811.9	10690.0	10826.0
7.5°	12209.7	12181.6	11829.8	11534.3	11154.3	10690.0	10319.4	10108.3	9770.6	9676.8	9747.1
10°	12172.2	12022.1	11609.3	11220.0	10502.3	10094.2	9493.8	8912.2	8593.2	8429.1	8405.6
12.5°	12120.6	12078.4	11388.9	10718.1	9962.9	9104.5	8260.2	7711.4	7190.7	6965.6	6998.4
15°	12181.6	11825.1	10976.1	10127.1	9123.3	7997.5	7087.5	6379.3	6018.1	5872.7	5872.7
17.5°	12153.4	11703.1	10779.1	9465.7	8194.5	6862.4	5863.3	5436.4	5286.3	5286.3	5328.6
20°	12167.5	11782.9	10380.4	8804.3	7096.9	5778.9	5051.8	4897.0	4962.7	4986.1	5009.6
22.5°	12247.2	11520.2	9991.0	8077.3	6079.1	4943.9	4587.4	4592.1	4709.4	4836.0	4812.6
25°	12345.7	11417.0	9517.3	7354.9	5300.4	4535.8	4423.3	4409.2	4498.3	4564.0	4573.4
27.5°	12261.3	11238.8	9034.2	6454.3	4662.5	4263.8	4240.3	4249.7	4277.9	4409.2	4367.0
30°	12538.1	11290.4	8429.1	5699.1	4310.7	4174.7	4146.5	4132.4	4174.7	4212.2	4179.4
32.5°	12880.5	11107.4	7978.8	4972.1	4137.1	4109.0	4052.7	4033.9	4057.4	4019.9	4038.6
35°	13030.6	11074.6	7392.4	4451.4	4001.1	3977.7	3944.8	3940.1	3944.8	3912.0	3883.8
37.5°	13115.0	11229.4	6721.7	4212.2	3916.7	3940.1	3865.1	3855.7	3771.3	3790.0	3804.1
40°	13260.4	10990.2	6177.6	3982.3	3865.1	3818.2	3752.5	3738.4	3682.1	3649.3	3682.1
42.5°	13049.3	10919.8	5642.8	3883.8	3790.0	3738.4	3691.5	3611.8	3593.0	3564.9	3546.1
45°	12880.5	10516.4	5164.4	3761.9	3700.9	3672.8	3583.6	3499.2	3428.9	3457.0	3414.8
47.5°	13007.1	10375.7	4690.6	3658.7	3579.0	3546.1	3457.0	3391.3	3321.0	3288.1	3278.8
50°	13513.7	10638.4	4291.9	3583.6	3475.8	3457.0	3339.7	3264.7	3199.0	3175.6	3184.9
52.5°	14723.9	11356.0	4019.9	3428.9	3377.3	3292.8	3227.2	3133.3	3091.1	3016.1	3063.0
55°	16257.7	12524.0	3949.5	3283.4	3255.3	3180.2	3091.1	3020.8	2941.0	2880.0	2866.0
56°	16750.3	13082.2	3893.2	3227.2	3180.2	3138.0	3020.8	2978.6	2851.9	2837.8	2828.5
57.5°	17149.0	13574.7	3902.6	3119.3	3072.4	3034.8	2964.5	2861.3	2776.9	2725.3	2748.7
60°	16248.4	12706.9	3724.4	2955.1	2945.7	2875.4	2776.9	2729.9	2626.8	2565.8	2551.7
62.5°	12078.4	8626.1	3020.8	2744.0	2739.3	2664.3	2551.7	2500.1	2481.3	2396.9	2396.9
65°	6956.2	5408.3	2612.7	2570.5	2532.9	2457.9	2345.3	2303.1	2256.2	2228.1	2204.6
67.5°	2969.2	2805.0	2373.5	2368.8	2326.6	2232.7	2120.2	2054.5	1993.5	1937.2	1965.4
70°	2153.0	2185.8	2143.6	2120.2	2068.6	1951.3	1852.8	1773.1	1679.2	1641.7	1669.9
72.5°	1707.4	1777.7	1838.7	1843.4	1782.4	1646.4	1538.5	1430.6	1327.4	1275.9	1299.3
75°	1294.6	1341.5	1402.5	1416.6	1327.4	1233.6	1130.4	1017.9	938.1	877.1	886.5
77.5°	933.4	924.1	980.3	971.0	928.7	863.1	769.3	666.1	576.9	520.7	525.4
80°	637.9	652.0	684.8	680.1	628.5	586.3	516.0	431.5	365.9	319.0	309.6
82.5°	445.6	469.1	497.2	473.8	431.5	389.3	337.7	276.7	225.2	187.6	178.2
85°	159.5	182.9	211.1	225.2	239.2	229.8	192.3	154.8	112.6	93.8	89.1
87.5°	32.8	37.5	42.2	42.2	42.2	37.5	32.8	32.8	28.1	14.1	14.1
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)