

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: P532128

Luminaire Tested: **GALN-SA7C-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532128
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-SA7C-727-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 36953 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

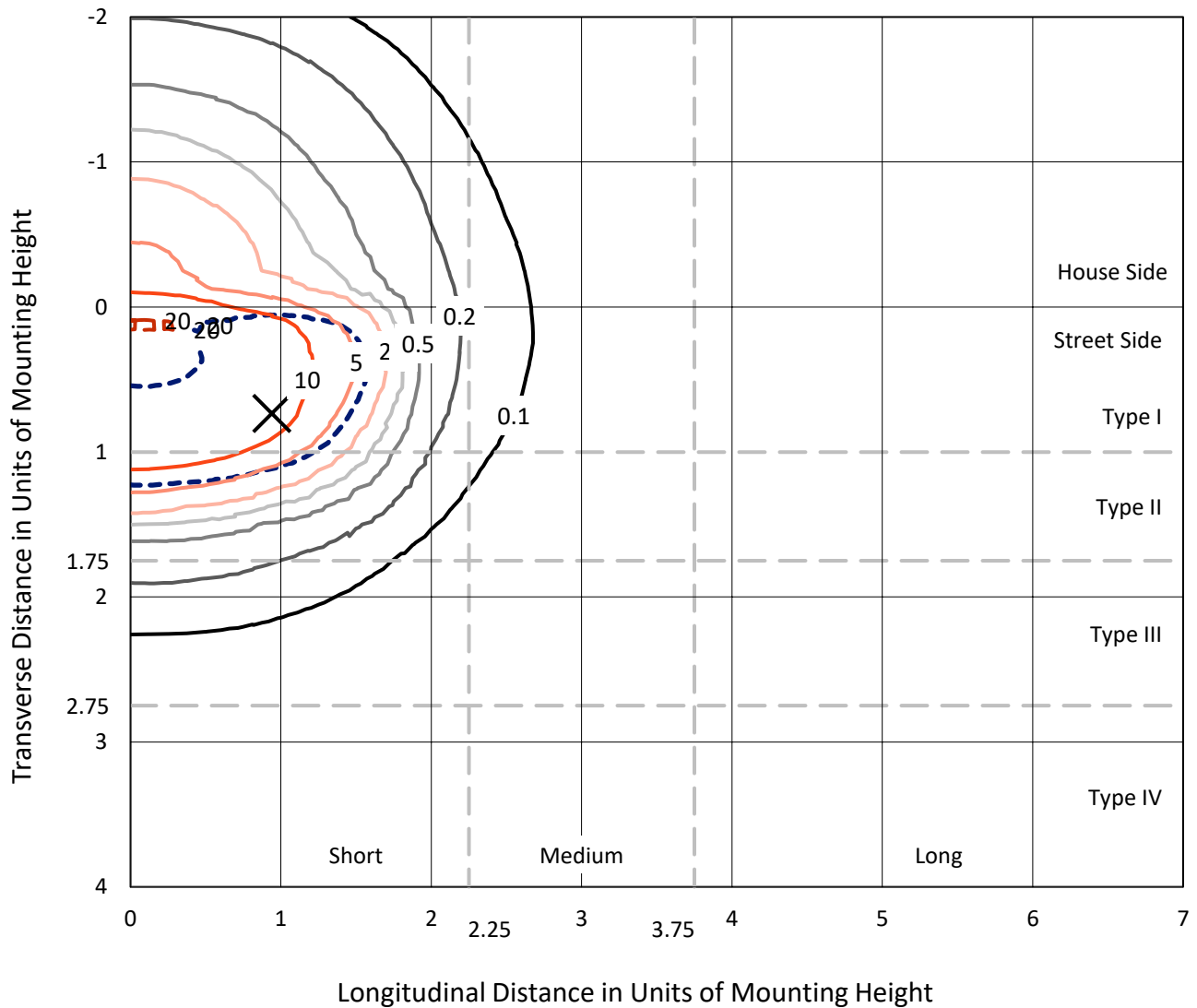
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

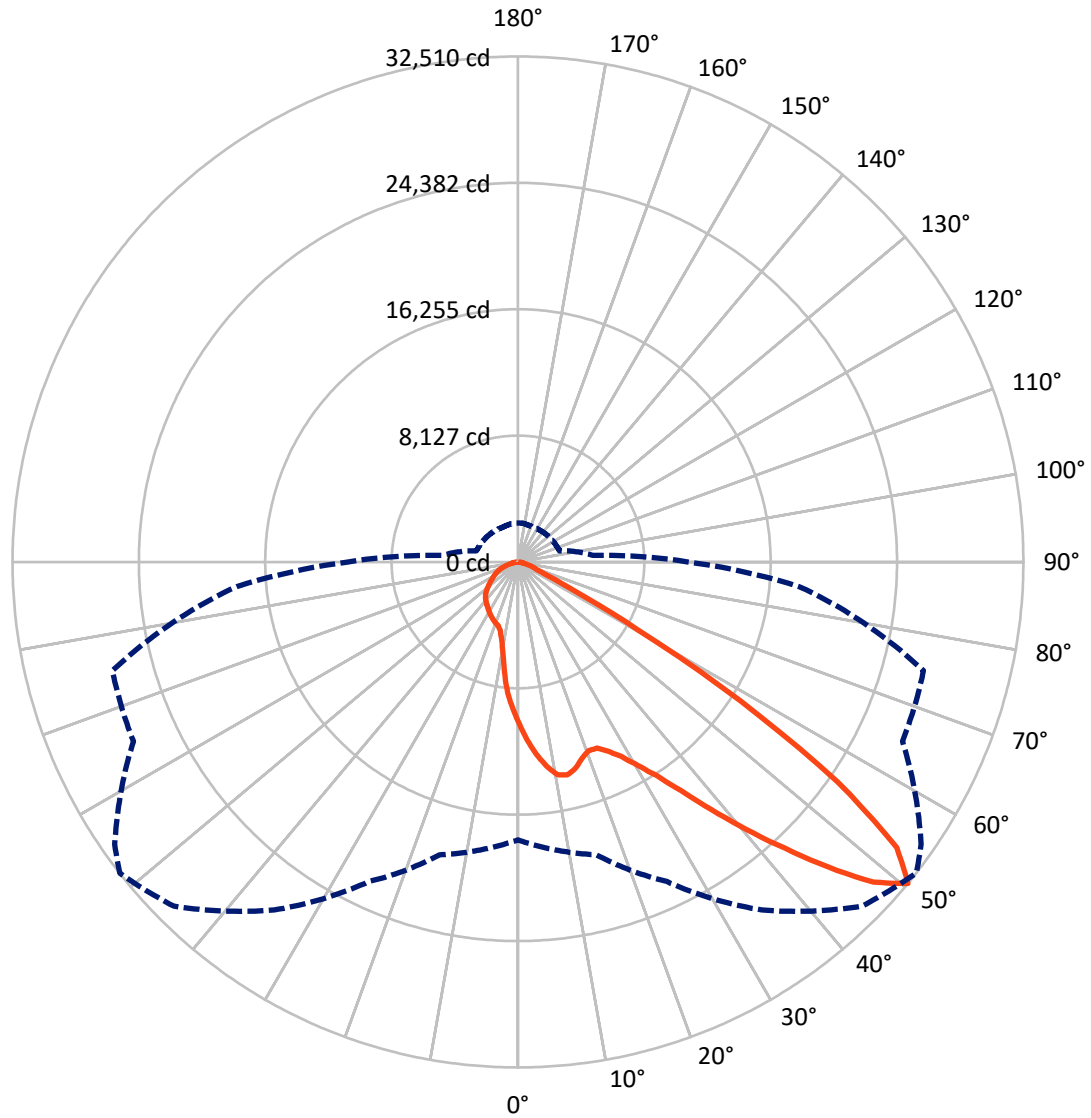
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.3 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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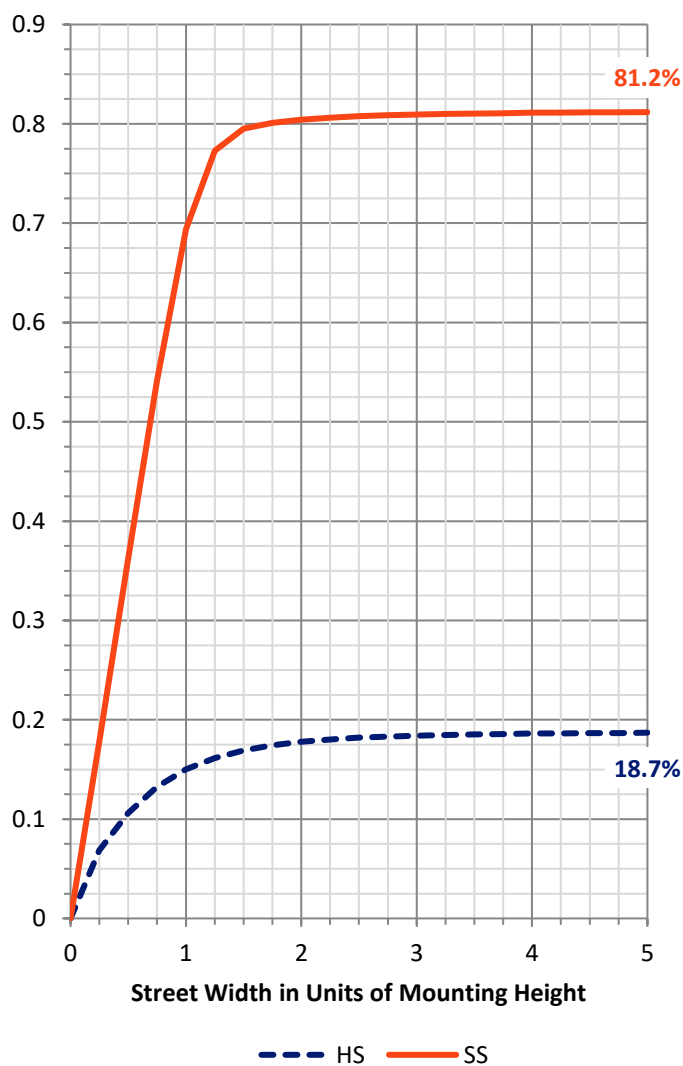
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6946.3	0.0	6946.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	30006.7	0.0	30006.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	36953.0	0.0	36953.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	960.1	2.6
10°-20°	2573.2	7.0
20°-30°	4334.5	11.7
30°-40°	7273.7	19.7
40°-50°	11127.0	30.1
50°-60°	8112.5	22.0
60°-70°	1805.4	4.9
70°-80°	651.2	1.8
80°-90°	115.3	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°	36953.0	100.0
0°-180°	36953.0	100.0

Coefficient of Utilization



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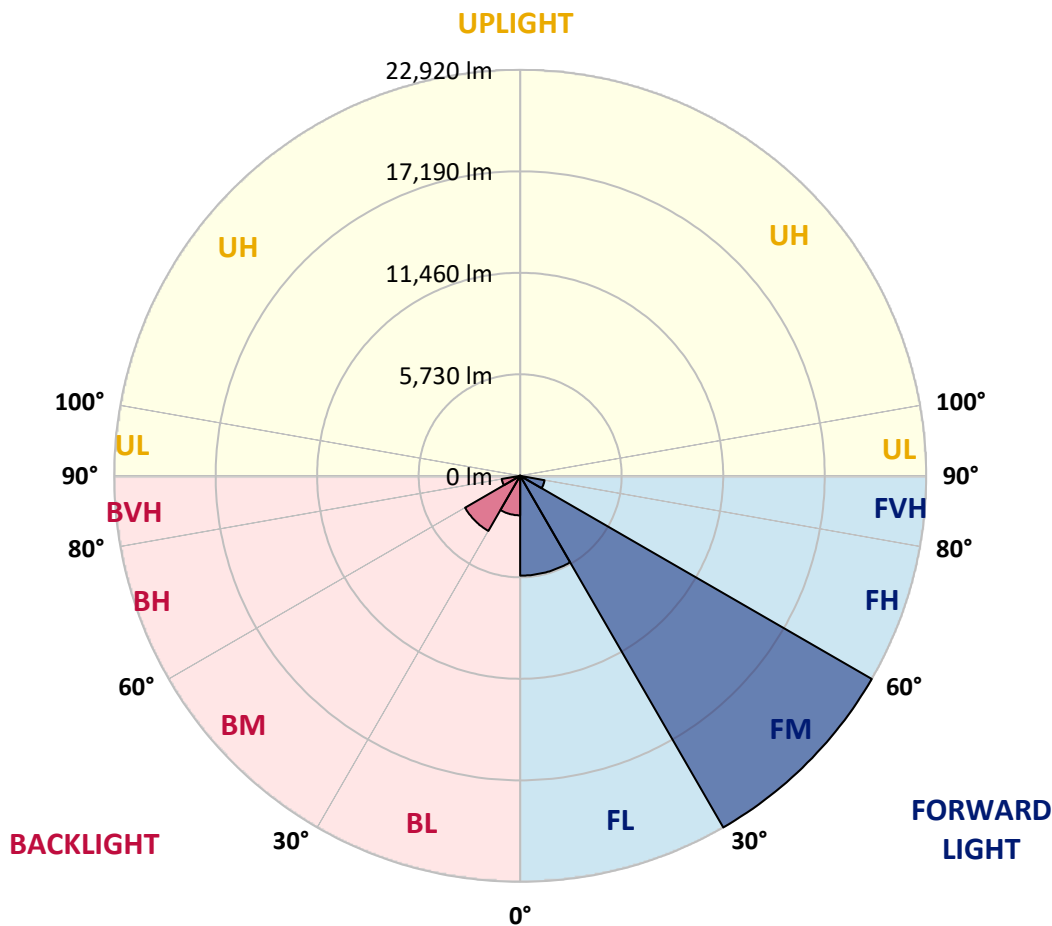
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5636.6	15.3			
FM (30°-60°)	22920.1	62.0			
FH (60°-80°)	1398.3	3.8			G1/1800
FVH (80°-90°)	51.7	0.1			G1/100
BL (0°-30°)	2231.3	6.0	B3/2500		
BM (30°-60°)	3593.1	9.7	B3/5000		
BH (60°-80°)	1058.3	2.9	B3/2500		G3/2500
BVH (80°-90°)	63.6	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	10416.4	10416.4	10416.4	10416.4	10416.4	10416.4	10416.4	10416.4	10416.4	10416.4	10416.4
2.5°	12264.6	12028.6	12055.3	11886.1	11703.5	11650.0	11463.0	11284.8	11151.2	10866.2	10603.5
5°	13404.7	13333.4	13226.5	13092.9	12954.9	12616.4	12424.9	12202.2	11712.4	11271.5	10835.1
7.5°	13569.4	13556.1	13614.0	13614.0	13662.9	13533.8	13262.1	13106.3	12585.2	11868.2	11057.7
10°	12411.5	12451.6	12732.2	13097.4	13605.1	13956.9	13912.3	13872.3	13302.2	12322.5	11320.5
12.5°	11489.7	11400.6	11565.4	11877.1	12638.7	13489.3	14063.8	14068.2	13921.2	13048.4	11512.0
15°	10968.7	11031.0	11075.5	11222.5	11797.0	12781.2	13792.1	14090.5	14736.2	13560.5	11814.8
17.5°	11302.7	11093.4	11084.4	11120.1	11414.0	12153.3	13288.9	13801.0	15181.5	14219.6	12188.9
20°	11739.1	11734.6	11609.9	11565.4	11561.0	12220.1	12959.3	13654.0	15417.6	15074.7	12567.4
22.5°	12505.1	12505.1	12300.2	12202.2	11992.9	12531.8	13003.8	13475.9	15809.5	15662.5	12750.0
25°	13787.6	13578.3	13226.5	12986.0	12865.8	13057.3	13475.9	13899.0	16152.4	16286.0	13128.5
27.5°	14972.2	14642.7	14469.0	14054.8	13894.5	13783.2	14166.2	14593.7	16553.2	17256.8	13333.4
30°	16317.2	16259.3	15947.5	15413.1	15016.8	14811.9	15163.7	15586.8	17288.0	18249.9	13805.5
32.5°	18722.0	18196.5	17773.4	17118.8	16473.0	16036.6	16384.0	16664.5	18508.2	19287.6	14322.0
35°	21318.3	21149.1	20418.7	19238.6	18249.9	17858.0	18062.9	18272.2	19928.8	20873.0	15190.5
37.5°	23870.1	23638.5	23037.3	22044.2	20841.8	20044.6	20191.6	20436.5	21523.1	23010.6	16250.4
40°	25704.9	25419.8	25117.0	24970.1	23776.6	22685.5	22600.9	22663.2	23678.6	25014.6	17426.0
42.5°	25838.5	26190.3	26283.8	26876.1	26595.5	25700.4	25179.4	25192.7	25736.0	26996.3	18615.1
45°	25557.9	25232.8	25923.1	27539.7	28466.0	28884.6	28007.3	27895.9	27009.7	28145.3	19207.4
47.5°	22614.2	22703.3	23870.1	26426.3	29102.8	30973.2	30768.4	30398.7	27691.1	28105.2	19113.9
50°	17875.8	18414.7	19496.9	22681.0	27321.4	31302.8	32509.6	31654.6	27285.8	27000.8	18160.9
52.5°	11903.9	12126.5	12839.1	16949.5	21968.5	27980.5	30505.6	30701.5	26911.7	25553.5	16954.0
55°	5299.5	5281.7	6283.7	8853.3	13783.2	21291.6	24925.5	26119.0	25473.3	24079.4	15778.3
57.5°	2244.5	2320.2	2729.9	3825.4	6778.0	12848.0	16887.2	17933.7	19590.4	19773.0	12104.3
60°	1518.6	1527.5	1638.8	1915.0	2836.8	6034.3	8857.8	10113.6	11298.2	11218.0	6421.8
62.5°	1193.5	1224.7	1309.3	1420.6	1683.4	2738.8	3963.5	4662.7	4738.4	3985.8	2436.0
65°	1019.8	1024.3	1108.9	1202.4	1318.2	1594.3	1910.5	1946.1	1968.4	1897.1	1790.3
67.5°	841.7	850.6	917.4	1024.3	1131.2	1220.2	1309.3	1353.8	1456.3	1656.7	1629.9
70°	668.0	681.4	739.3	828.3	926.3	979.7	1091.1	1131.2	1224.7	1380.5	1442.9
72.5°	507.7	512.1	561.1	623.5	712.5	766.0	859.5	904.0	966.4	1100.0	1157.9
75°	365.2	378.5	414.2	445.3	458.7	494.3	583.4	632.4	721.4	779.3	783.8
77.5°	191.5	200.4	209.3	209.3	253.8	320.6	378.5	405.3	467.6	512.1	489.9
80°	75.7	80.2	102.4	138.1	178.1	231.6	271.7	285.0	338.5	365.2	378.5
82.5°	44.5	49.0	66.8	98.0	129.1	164.8	195.9	209.3	244.9	276.1	285.0
85°	22.3	26.7	40.1	62.3	84.6	102.4	98.0	93.5	93.5	89.1	93.5
87.5°	8.9	8.9	13.4	13.4	13.4	17.8	22.3	22.3	22.3	26.7	26.7
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°	10416.4	10416.4	10416.4	10416.4	10416.4	10416.4	10416.4	10416.4	10416.4	10416.4	10416.4
2.5°	10429.8	10251.7	10086.9	9784.1	9454.5	9361.0	8978.0	8839.9	8742.0	8626.2	8590.6
5°	10483.2	10247.2	9717.3	9107.1	8621.7	7998.3	7588.5	7147.7	6827.0	6746.9	6724.6
7.5°	10594.6	10189.3	9276.4	8354.5	7361.4	6515.3	5869.5	5522.2	5214.9	5197.1	5165.9
10°	10719.3	10015.6	8795.4	7348.1	6078.9	5295.1	4907.6	4756.2	4680.5	4662.7	4653.8
12.5°	10821.7	9980.0	8256.6	6368.3	5170.4	4698.3	4582.5	4569.2	4600.3	4609.2	4627.1
15°	10866.2	9837.5	7606.4	5491.0	4604.8	4431.1	4480.1	4533.5	4555.8	4613.7	4569.2
17.5°	10950.8	9654.9	6804.8	4796.3	4288.6	4319.8	4404.4	4466.7	4502.4	4542.4	4484.5
20°	10995.4	9490.1	6052.1	4382.1	4177.3	4235.2	4350.9	4399.9	4444.5	4462.3	4395.5
22.5°	10955.3	9151.7	5388.6	4048.1	4070.4	4146.1	4248.5	4302.0	4275.2	4204.0	4163.9
25°	10848.4	8675.2	4698.3	3834.4	3919.0	4052.6	4132.7	4092.6	4043.7	4003.6	3990.2
27.5°	10844.0	8091.8	4199.5	3638.4	3789.8	3972.4	3945.7	3910.1	3932.3	3901.2	3865.5
30°	10866.2	7526.2	3789.8	3527.1	3696.3	3785.4	3816.5	3780.9	3807.6	3749.7	3767.6
32.5°	10750.4	6974.0	3522.6	3397.9	3585.0	3580.5	3682.9	3709.7	3647.3	3527.1	3544.9
35°	10799.4	6528.6	3295.5	3340.0	3460.3	3460.3	3540.4	3509.3	3344.5	3273.2	3291.0
37.5°	11137.9	6092.2	3184.2	3259.9	3340.0	3375.7	3348.9	3215.3	3175.3	3175.3	3184.2
40°	11458.5	5718.1	3117.4	3242.1	3228.7	3251.0	3055.0	3068.4	3068.4	3072.8	3050.6
42.5°	11743.5	5464.3	3063.9	3135.2	3157.4	3041.7	2921.4	2908.1	2939.2	2934.8	2917.0
45°	11846.0	5255.0	2988.2	3014.9	3032.7	2841.3	2783.4	2756.6	2792.3	2805.6	2823.4
47.5°	11454.1	5081.3	2903.6	2850.2	2814.5	2689.8	2614.1	2565.1	2609.7	2685.4	2703.2
50°	10950.8	4854.2	2770.0	2667.6	2591.9	2538.4	2485.0	2436.0	2467.2	2520.6	2507.2
52.5°	10207.1	4497.9	2600.8	2493.9	2364.7	2378.1	2329.1	2302.4	2320.2	2320.2	2306.8
55°	9147.2	3696.3	2315.8	2240.0	2133.2	2168.8	2177.7	2142.1	2106.4	2137.6	2110.9
57.5°	6243.6	2609.7	2066.4	2066.4	1959.5	2008.5	2004.0	1919.4	1834.8	1843.7	1825.9
60°	3611.7	2079.7	1906.0	1888.2	1776.9	1817.0	1825.9	1768.0	1638.8	1647.7	1629.9
62.5°	2053.0	1776.9	1665.6	1638.8	1616.6	1652.2	1652.2	1576.5	1465.2	1474.1	1456.3
65°	1745.7	1647.7	1487.4	1483.0	1474.1	1483.0	1447.3	1367.2	1269.2	1229.1	1233.6
67.5°	1585.4	1523.1	1367.2	1327.1	1300.4	1295.9	1229.1	1153.4	1108.9	1073.3	1068.8
70°	1389.5	1340.5	1224.7	1171.2	1144.5	1082.2	1015.4	966.4	904.0	886.2	904.0
72.5°	1100.0	1095.5	1051.0	993.1	935.2	886.2	828.3	761.5	703.6	690.3	659.1
75°	761.5	770.4	779.3	770.4	721.4	659.1	592.3	538.9	467.6	427.5	418.6
77.5°	498.8	512.1	525.5	507.7	476.5	418.6	374.1	307.3	253.8	222.7	218.2
80°	365.2	383.0	391.9	378.5	342.9	298.4	249.4	195.9	155.9	129.1	129.1
82.5°	280.6	298.4	307.3	285.0	249.4	213.8	178.1	138.1	106.9	84.6	80.2
85°	98.0	93.5	111.3	115.8	138.1	129.1	106.9	80.2	62.3	44.5	40.1
87.5°	26.7	26.7	31.2	31.2	26.7	22.3	22.3	22.3	17.8	13.4	13.4
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)