

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: P534162

Luminaire Tested: **GALN-SA9C-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534162
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-827-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39637 lumens
Efficiency: N/A
Efficacy: 82.4 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

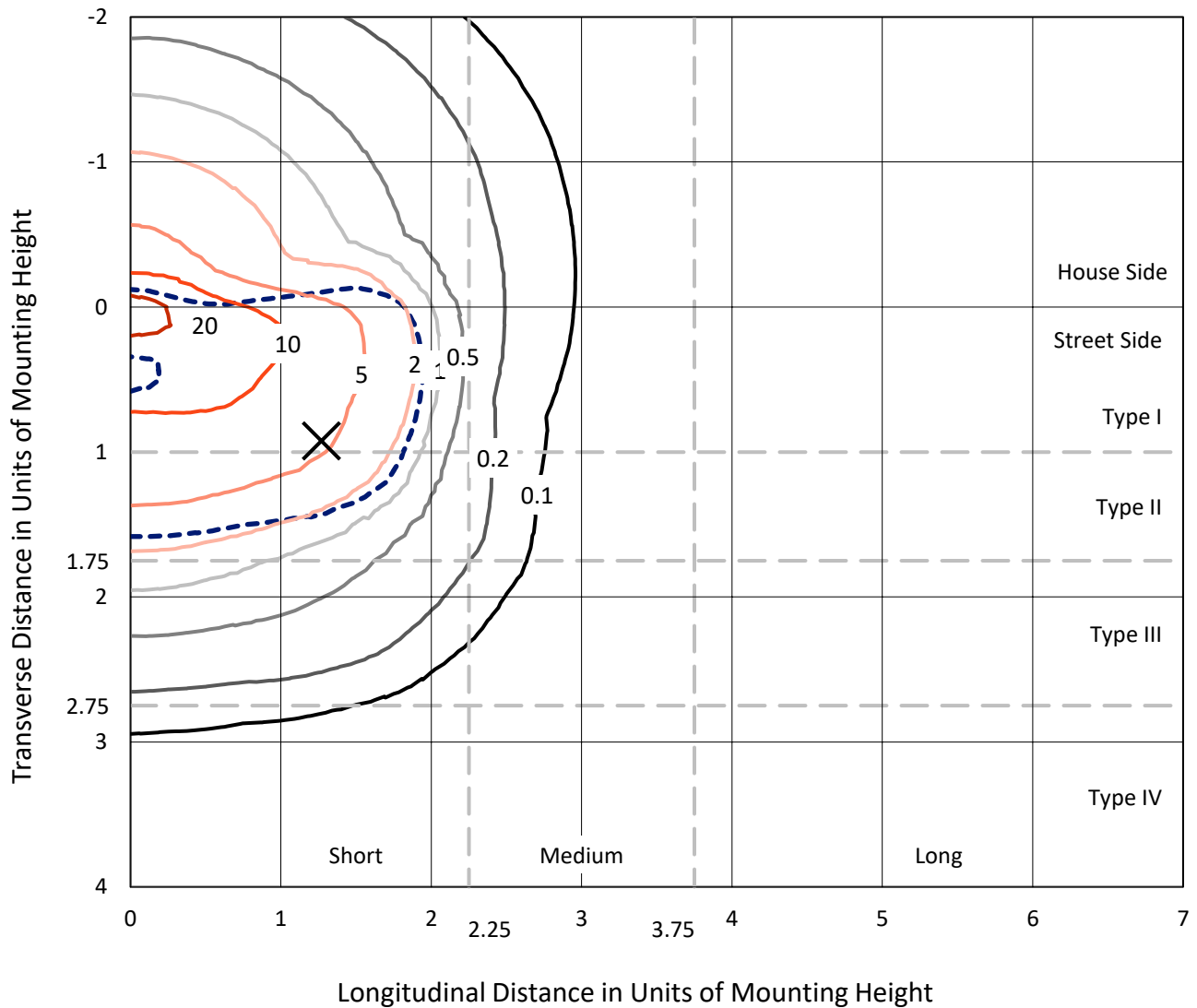
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

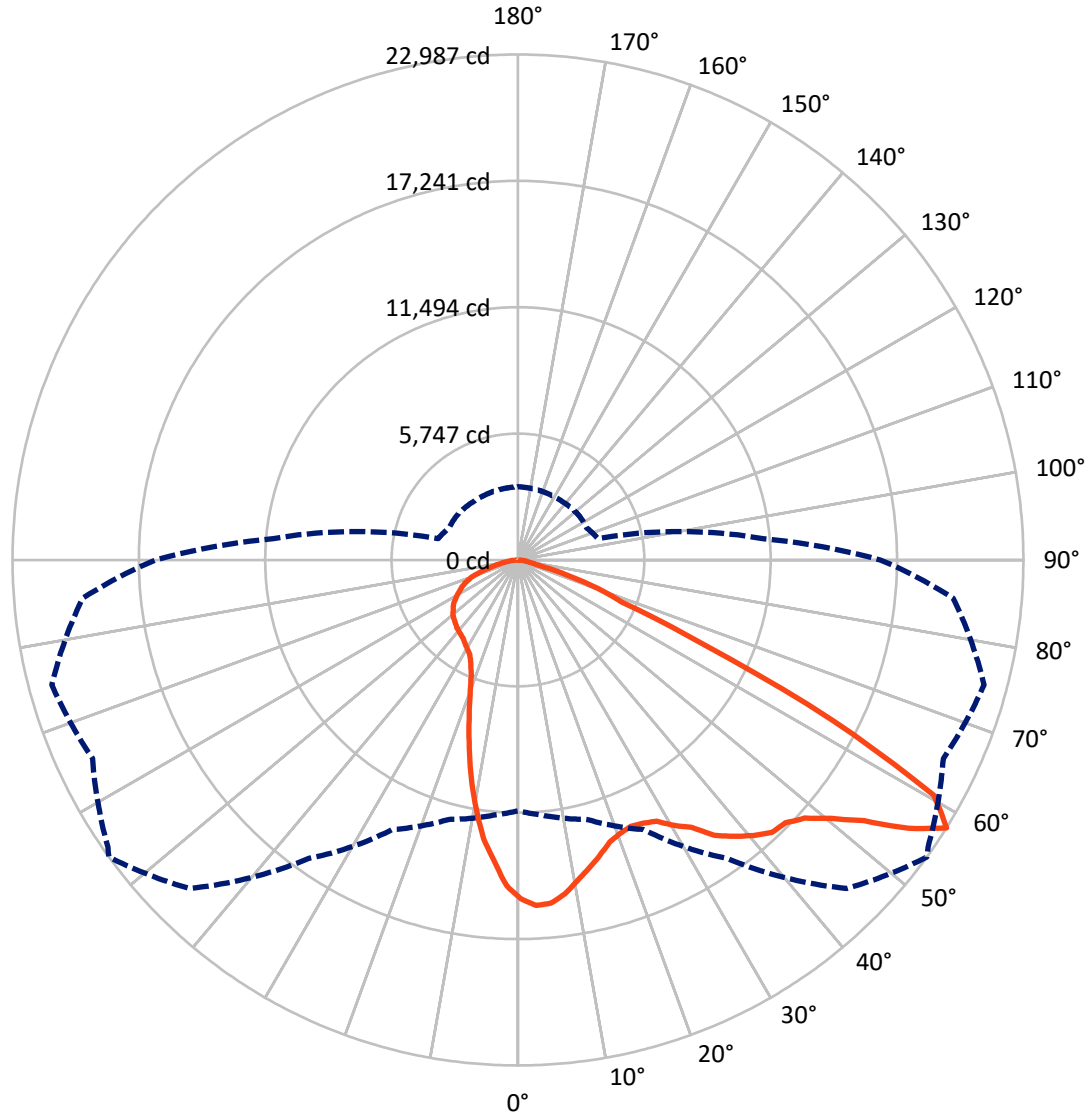
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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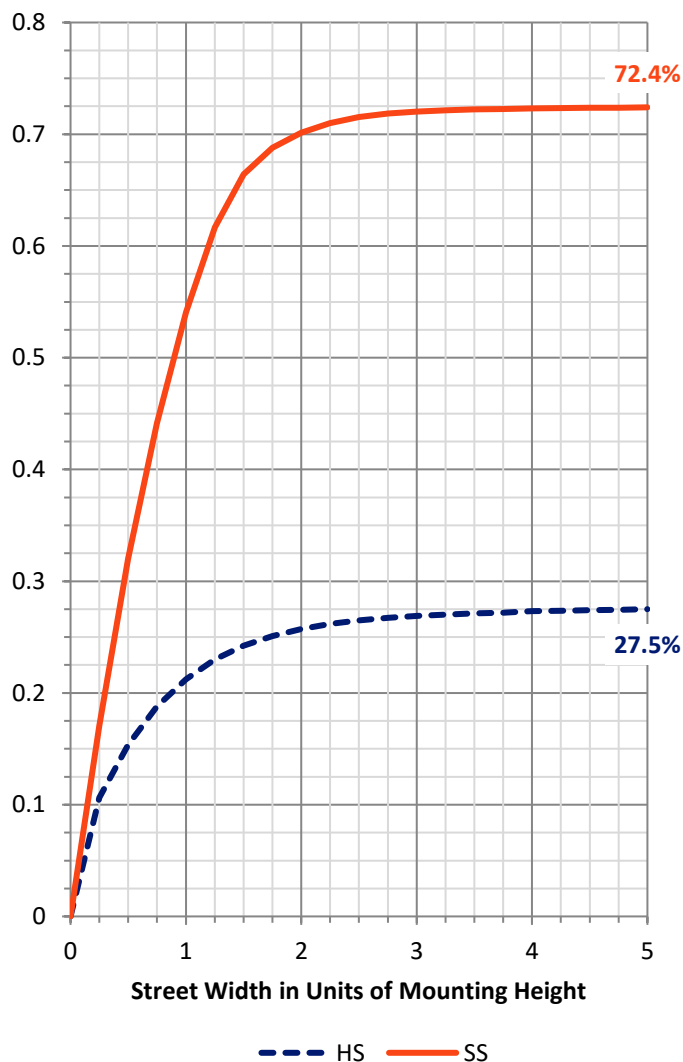
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10965.8	0.0	10965.8
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	28671.2	0.0	28671.2
	% Fixture	72.3	0.0	72.3
Total	Lumens	39637.0	0.0	39637.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1328.7	3.4
10°-20°	3076.3	7.8
20°-30°	4322.3	10.9
30°-40°	6042.6	15.2
40°-50°	8180.5	20.6
50°-60°	9964.2	25.1
60°-70°	5189.8	13.1
70°-80°	1329.8	3.4
80°-90°	202.9	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°	39637.0	100.0
0°-180°	39637.0	100.0



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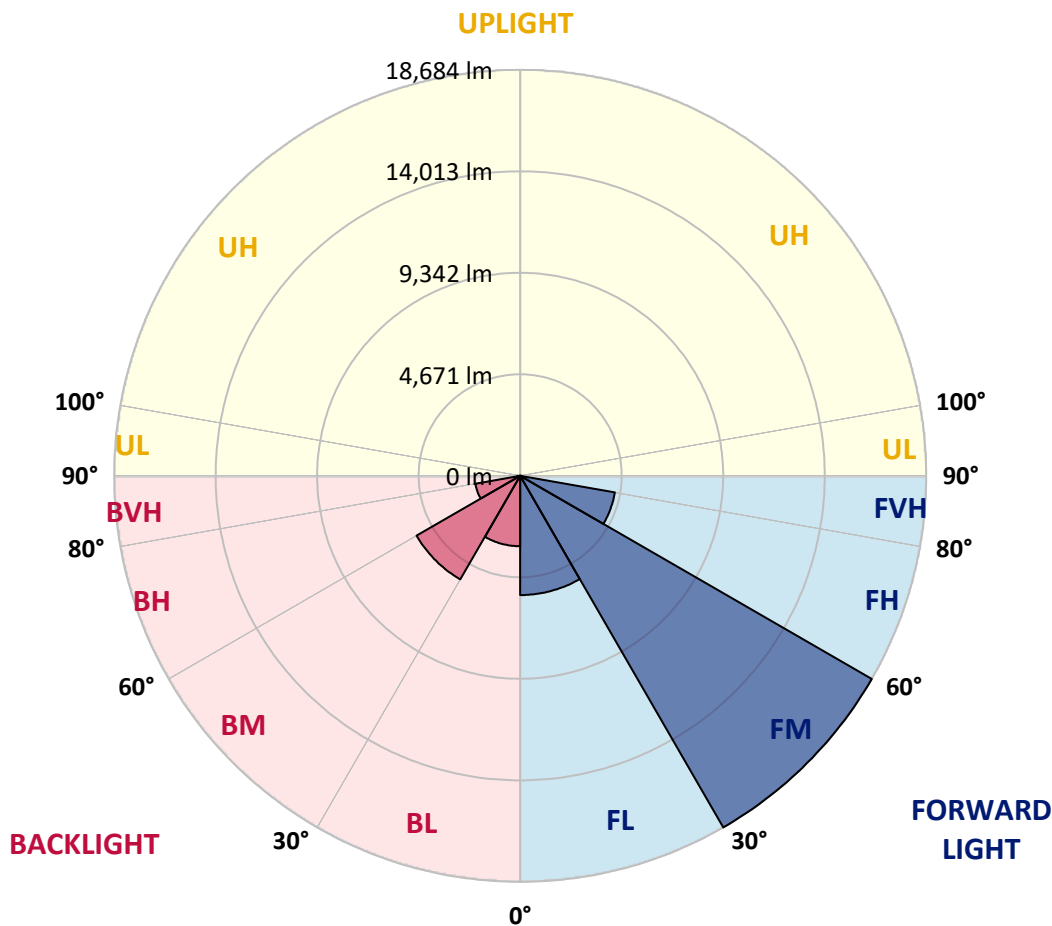
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5486.3	13.8			
FM (30°-60°)	18683.7	47.1			
FH (60°-80°)	4424.6	11.2			G2/5000
FVH (80°-90°)	76.7	0.2			G1/100
BL (0°-30°)	3241.0	8.2	B4/5000		
BM (30°-60°)	5503.6	13.9	B4/8500		
BH (60°-80°)	2095.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	126.2	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°	54°	55°	65°	75°	85°
0°	15406.4	15406.4	15406.4	15406.4	15406.4	15406.4	15406.4	15406.4	15406.4	15406.4	15406.4
2.5°	15844.6	15783.5	15793.6	15875.2	15773.3	15732.5	15732.5	15533.8	15549.1	15411.5	15375.9
5°	15477.8	15335.1	15431.9	15554.2	15574.6	15615.3	15681.6	15630.6	15488.0	15340.2	15100.8
7.5°	14520.0	14647.3	14683.0	14769.6	14953.0	15121.1	15330.0	15187.4	15182.3	15034.5	14891.9
10°	13679.3	13602.9	13796.5	13923.9	14229.6	14509.8	14830.7	14815.5	14891.9	14723.8	14479.2
12.5°	12843.8	12782.7	12874.4	13164.8	13592.7	14000.3	14382.4	14239.8	14647.3	14616.8	14092.0
15°	11957.3	12003.2	12135.6	12405.7	12966.1	13455.2	13939.2	13944.3	14306.0	14428.3	13725.2
17.5°	11335.8	11284.8	11452.9	11855.4	12354.7	12940.6	13490.8	13602.9	14158.2	14229.6	13613.1
20°	10872.1	10943.5	11162.5	11366.3	11942.0	12650.2	13271.8	13312.5	14127.7	14321.3	13434.8
22.5°	10760.1	10719.3	10790.6	11121.8	11595.6	12364.9	13154.6	13307.4	14122.6	14290.7	13098.5
25°	10642.9	10775.3	10770.2	11101.4	11447.8	12135.6	13251.4	13419.5	14392.6	14448.6	13144.4
27.5°	10907.8	10892.5	11035.2	11060.6	11488.6	12196.8	13455.2	13582.5	14840.9	14795.1	13180.1
30°	11172.7	11096.3	11182.9	11483.5	11682.2	12548.3	14015.6	14005.4	15421.7	15391.2	13292.1
32.5°	11498.8	11463.1	11519.2	11784.1	12120.4	13017.0	14489.4	14790.0	16012.7	16206.3	13679.3
35°	11559.9	11707.7	11840.1	12196.8	12675.7	13776.1	15381.0	15630.6	16695.4	17301.7	14418.1
37.5°	11947.1	12003.2	12313.9	12945.7	13383.8	14790.0	15946.5	16104.4	17317.0	18004.8	15197.6
40°	12359.8	12426.0	12894.7	13557.1	14158.2	15452.3	16476.3	16527.3	17515.7	18544.8	15707.0
42.5°	12920.2	12981.4	13445.0	14275.4	15080.4	16017.8	16945.1	17001.1	17500.4	19166.4	16517.1
45°	13501.0	13648.8	14193.9	15136.4	15859.9	16680.1	17052.0	17281.3	17643.0	19721.7	17174.3
47.5°	14316.2	14453.7	14902.1	15824.2	16669.9	17260.9	17546.2	17770.4	17984.4	20205.7	17597.2
50°	15182.3	15207.8	15752.9	16588.4	17210.0	17918.1	18468.4	18544.8	18432.7	20766.1	18315.5
52.5°	15819.1	15900.6	16323.5	17138.7	18065.9	18937.1	19691.1	19772.6	19553.6	20975.0	18560.1
55°	14764.5	14718.7	15406.4	16491.6	18641.6	20455.3	21550.7	21611.8	20368.7	21622.0	19360.0
57.5°	11412.2	11631.3	12217.2	13526.5	16563.0	21127.8	22987.4	22768.3	21346.9	21948.1	19869.4
60°	8294.2	8243.3	8635.6	9511.9	12482.1	18208.5	21734.1	21958.3	20547.0	19782.8	16384.6
62.5°	6755.6	6684.3	6714.8	6745.4	8054.8	12084.7	16089.1	16084.0	15824.2	14219.4	11050.5
65°	5400.4	5568.5	5583.8	5813.1	5981.2	7219.2	9323.3	9822.6	8554.0	7015.4	5089.6
67.5°	4070.7	4009.5	4213.3	5028.5	5344.4	5211.9	5089.6	5145.7	3658.0	2639.1	2486.2
70°	2399.6	2374.1	2618.7	3505.2	4401.8	4142.0	3836.3	3841.4	2511.7	1844.3	2053.2
72.5°	1314.4	1309.3	1360.3	1778.1	2501.5	2598.3	2302.8	2374.1	1497.8	1492.8	1604.8
75°	733.6	718.4	703.1	784.6	901.8	952.7	973.1	983.3	1029.1	1151.4	1197.3
77.5°	270.0	259.8	259.8	300.6	382.1	478.9	606.3	616.5	728.5	835.5	881.4
80°	91.7	101.9	137.6	188.5	254.7	341.3	412.7	422.9	514.6	585.9	601.2
82.5°	56.0	61.1	91.7	132.5	183.4	239.5	305.7	310.8	382.1	428.0	448.3
85°	25.5	30.6	50.9	81.5	117.2	157.9	163.0	163.0	157.9	163.0	152.8
87.5°	0.0	0.0	10.2	10.2	10.2	15.3	20.4	15.3	25.5	30.6	30.6
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°	15406.4	15406.4	15406.4	15406.4	15406.4	15406.4	15406.4	15406.4	15406.4	15406.4	15406.4
2.5°	15268.9	15212.8	15039.6	14886.8	14840.9	14637.1	14336.6	14372.2	14153.1	14255.0	14148.1
5°	15060.0	14871.5	14428.3	14239.8	13745.6	13521.4	13368.6	12986.5	12808.1	12772.5	12619.6
7.5°	14525.1	14407.9	13852.6	13343.1	12818.3	12370.0	11794.3	11402.0	11121.8	11045.4	10821.2
10°	14102.2	13842.4	13073.1	12298.7	11549.7	10770.2	10021.3	9435.4	9150.1	8819.0	8706.9
12.5°	13684.4	13292.1	12252.8	11259.3	10291.3	9308.1	8401.2	7687.9	7066.4	6918.6	6867.7
15°	13424.6	12741.9	11519.2	10321.9	8946.3	7662.5	6755.6	6286.9	5904.8	5746.8	5858.9
17.5°	13083.3	12288.5	10816.1	9221.5	7708.3	6526.3	5767.2	5476.8	5339.3	5354.6	5308.7
20°	12655.3	11860.5	9894.0	8222.9	6602.8	5660.2	5227.2	5120.2	5140.6	5176.2	5161.0
22.5°	12349.6	11340.9	9226.5	7203.9	5706.1	5181.3	5003.0	4926.6	4992.8	5023.4	4997.9
25°	12115.3	10897.6	8416.5	6302.2	5186.4	4911.3	4829.8	4824.7	4926.6	4967.4	4941.9
27.5°	11901.3	10484.9	7611.5	5614.4	4840.0	4702.4	4677.0	4738.1	4804.3	4845.1	4880.7
30°	11773.9	10169.1	6857.5	5038.7	4666.8	4600.5	4554.7	4610.7	4646.4	4687.1	4666.8
32.5°	11896.2	9944.9	6129.0	4712.6	4524.1	4457.9	4519.0	4483.4	4544.5	4580.2	4524.1
35°	12278.3	9746.2	5609.3	4539.4	4361.1	4386.6	4396.7	4381.5	4406.9	4376.4	4442.6
37.5°	12655.3	9674.9	5130.4	4391.7	4284.7	4284.7	4274.5	4243.9	4294.9	4284.7	4315.2
40°	13134.2	9720.7	4722.8	4233.7	4213.3	4203.1	4162.4	4157.3	4136.9	4142.0	4152.2
42.5°	13552.0	9822.6	4488.5	4131.8	4147.1	4167.5	4091.1	4029.9	4055.4	4004.5	4004.5
45°	13995.2	9914.3	4279.6	4060.5	4045.2	4040.1	3979.0	3943.3	3922.9	3928.0	3973.9
47.5°	14693.2	10046.8	4121.6	3963.7	3973.9	3897.5	3882.2	3836.3	3856.7	3887.3	3892.4
50°	15187.4	10327.0	3999.4	3851.6	3887.3	3836.3	3744.6	3724.2	3724.2	3775.2	3765.0
52.5°	15533.8	10719.3	3882.2	3729.3	3744.6	3703.9	3673.3	3627.4	3596.9	3668.2	3703.9
55°	16593.5	11371.4	3851.6	3627.4	3622.3	3581.6	3525.5	3479.7	3464.4	3474.6	3545.9
57.5°	16491.6	11167.6	3754.8	3449.1	3438.9	3382.9	3326.9	3311.6	3306.5	3316.7	3337.0
60°	13388.9	8248.4	3352.3	3245.3	3230.1	3219.9	3163.8	3102.7	3072.1	3102.7	3077.2
62.5°	8859.7	5522.7	2954.9	3000.8	3011.0	2985.5	2893.8	2832.7	2842.9	2878.5	2822.5
65°	4350.9	3245.3	2679.8	2802.1	2812.3	2741.0	2654.4	2583.0	2547.4	2577.9	2552.5
67.5°	2486.2	2481.1	2455.7	2583.0	2577.9	2506.6	2369.0	2307.9	2246.8	2257.0	2241.7
70°	2109.2	2150.0	2200.9	2277.3	2272.2	2190.7	2027.7	1981.8	1895.2	1885.0	1859.6
72.5°	1660.9	1732.2	1844.3	1900.3	1854.5	1752.6	1645.6	1569.2	1492.8	1446.9	1462.2
75°	1232.9	1334.8	1396.0	1431.6	1360.3	1304.2	1217.6	1125.9	1034.2	993.5	978.2
77.5°	896.7	927.2	983.3	1008.8	962.9	906.9	855.9	764.2	677.6	621.6	606.3
80°	626.7	647.0	687.8	687.8	687.8	662.3	596.1	504.4	448.3	397.4	387.2
82.5°	438.1	458.5	499.3	478.9	473.8	443.2	402.5	331.2	270.0	234.4	224.2
85°	152.8	168.1	203.8	244.5	259.8	254.7	229.3	183.4	142.7	117.2	107.0
87.5°	35.7	35.7	40.8	35.7	35.7	40.8	35.7	35.7	35.7	25.5	20.4
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)