

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: P534095

Luminaire Tested: **GALN-SA9C-740-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-740-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38762 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G2

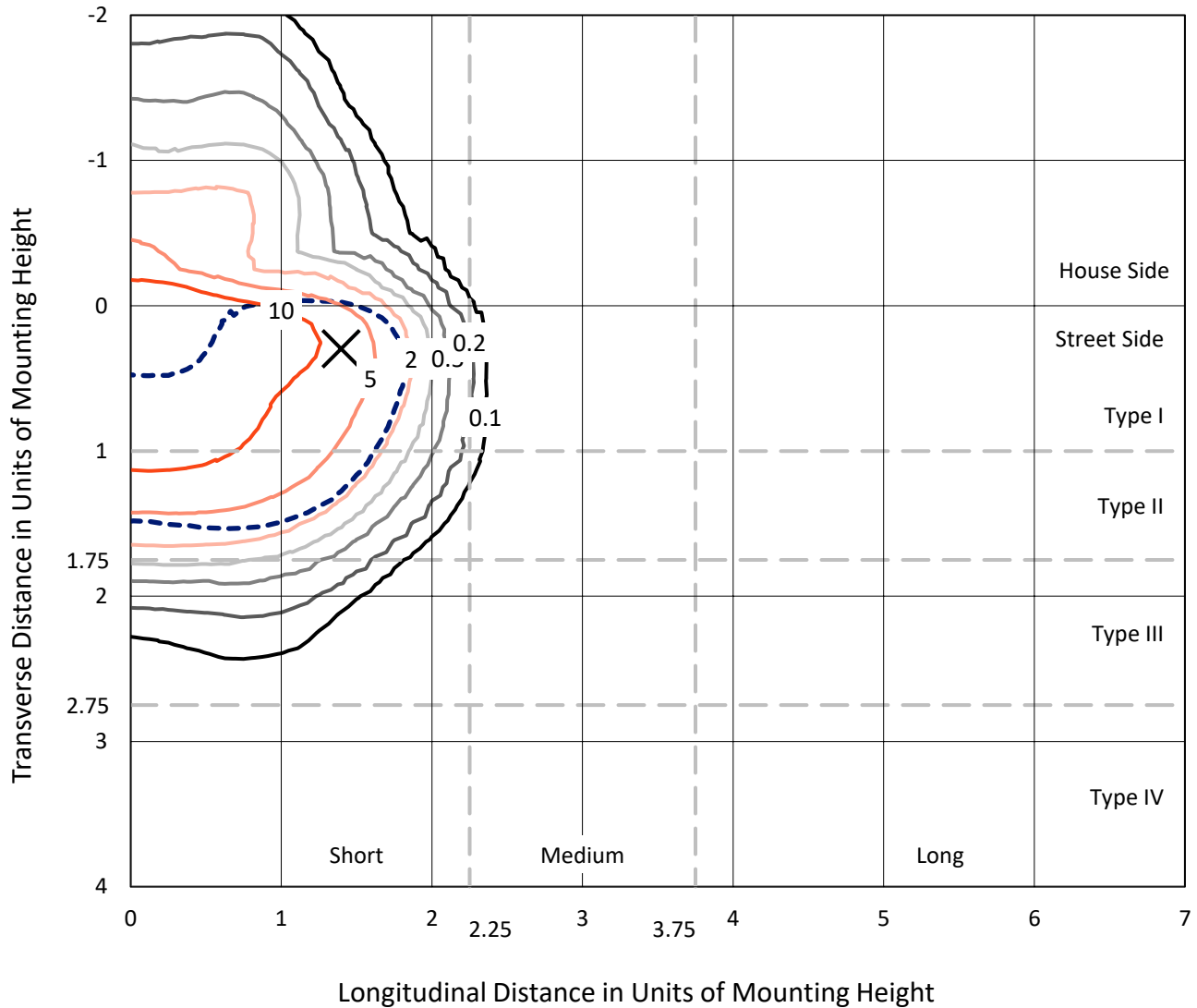
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

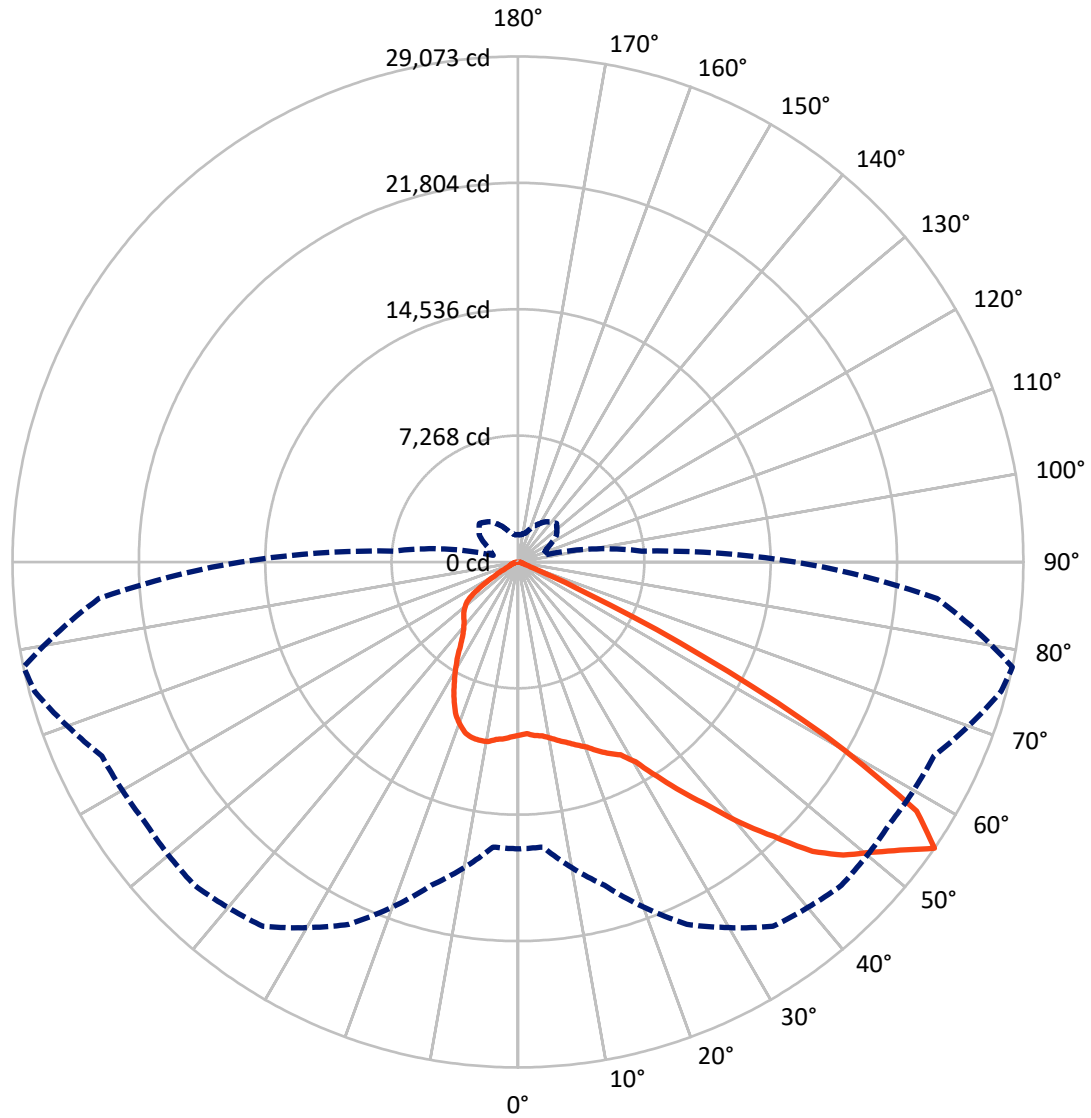
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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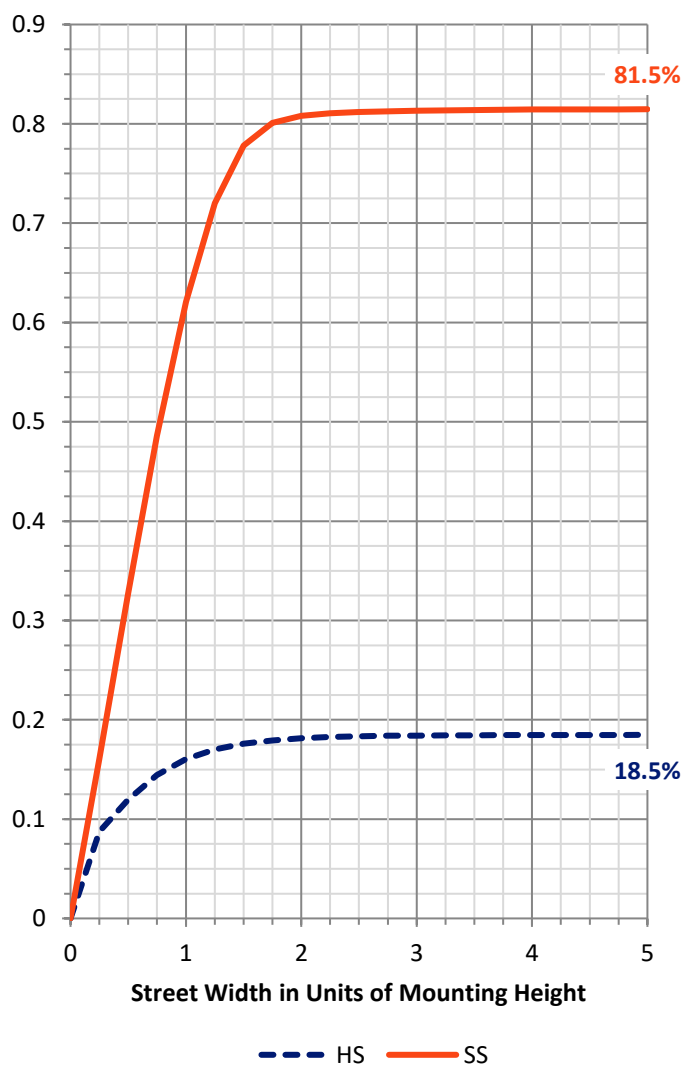
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7199.6	0.0	7199.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	31562.4	0.0	31562.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	38762.0	0.0	38762.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	888.6	2.3
10°-20°	2351.8	6.1
20°-30°	4122.2	10.6
30°-40°	6797.0	17.5
40°-50°	9890.5	25.5
50°-60°	11207.0	28.9
60°-70°	3204.3	8.3
70°-80°	248.8	0.6
80°-90°	51.8	0.1
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°	38762.0	100.0
0°-180°	38762.0	100.0

Coefficient of Utilization



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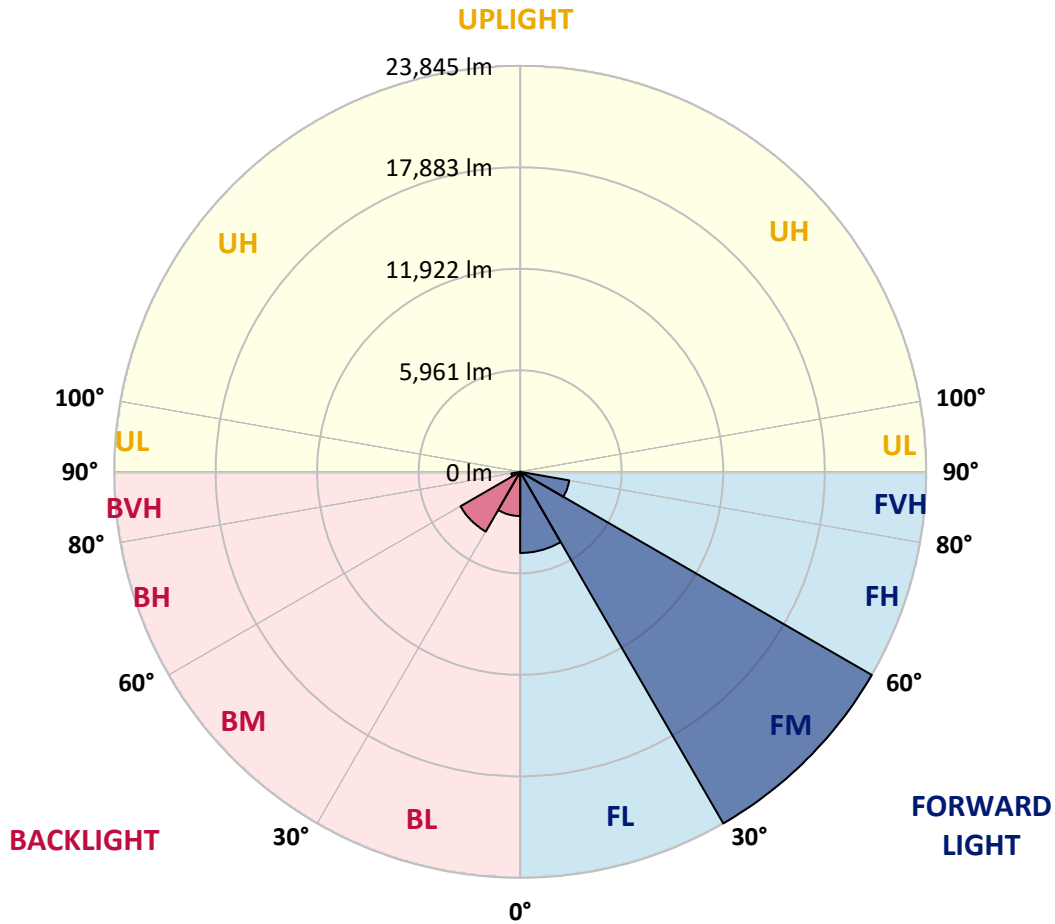
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4765.0	12.3			
FM (30°-60°)	23844.7	61.5			
FH (60°-80°)	2927.6	7.6			G2/5000
FVH (80°-90°)	25.2	0.1			G1/100
BL (0°-30°)	2597.6	6.7	B4/5000		
BM (30°-60°)	4049.9	10.4	B3/5000		
BH (60°-80°)	525.5	1.4	B2/1000		G2/1000
BVH (80°-90°)	26.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	9965.7	9965.7	9965.7	9965.7	9965.7	9965.7	9965.7	9965.7	9965.7	9965.7	9965.7
2.5°	9369.7	9459.8	9473.7	9584.6	9577.6	9764.8	9820.2	9827.1	9951.9	9889.5	10048.9
5°	9106.4	9057.9	9037.1	9231.1	9286.6	9452.9	9591.5	9674.7	9931.1	10021.2	10187.5
7.5°	8870.7	8870.7	8884.6	9057.9	9037.1	9251.9	9397.5	9653.9	10028.1	10104.3	10305.3
10°	8642.1	8558.9	8662.8	8843.0	8995.5	9092.5	9397.5	9640.0	10076.6	10298.4	10575.6
12.5°	8524.2	8565.8	8579.7	8711.4	8877.7	9168.8	9335.1	9737.0	10423.1	10554.8	10852.8
15°	9265.8	9182.6	8981.6	8863.8	9002.4	9141.0	9556.8	9965.7	10603.3	10790.4	11123.1
17.5°	10125.1	10055.8	9889.5	9570.7	9258.8	9515.3	9841.0	10215.2	10797.4	11074.6	11566.6
20°	11247.8	11136.9	10970.6	10346.9	10076.6	9799.4	10145.9	10589.5	11116.2	11365.6	11871.6
22.5°	12585.4	12585.4	12211.1	11455.7	10894.4	10631.0	10776.6	11033.0	11469.6	11809.2	12308.2
25°	13978.4	13936.8	13597.2	12814.1	11864.6	11552.8	11719.1	11899.3	12017.1	12204.2	12536.9
27.5°	15572.3	15329.8	14900.1	14033.8	13195.2	12592.3	12772.5	12613.1	12467.6	12564.6	13042.8
30°	16653.4	16805.9	16258.4	15426.8	14636.7	13964.5	13999.2	13860.5	13195.2	13333.8	13618.0
32.5°	17776.2	17873.2	17568.2	17110.8	16320.8	15537.7	15253.5	15135.7	14636.7	14699.1	14421.9
35°	18711.7	18898.9	18628.6	18427.6	18198.9	17568.2	16785.1	17166.3	16362.4	16209.9	15489.2
37.5°	19571.1	19515.6	19834.4	19626.5	19578.0	19134.5	18275.1	18351.4	17810.8	17776.2	16944.5
40°	20340.4	20354.2	20790.8	20887.8	20693.8	19903.7	18656.3	19259.2	19695.8	19737.4	18670.2
42.5°	20977.9	21165.1	21539.3	22322.4	22031.3	20714.6	19051.3	19709.7	21331.4	21587.8	20305.7
45°	21532.4	21913.5	22377.9	23077.8	22911.5	21865.0	20035.4	20638.4	23077.8	23750.0	21844.2
47.5°	21567.0	22066.0	22571.9	23611.4	23819.3	22481.8	21054.2	22107.6	24463.9	25191.5	22966.9
50°	21428.4	21691.8	22703.6	23833.2	24304.5	23486.7	22481.8	23341.2	25808.3	26265.7	23535.2
52.5°	19785.9	19986.9	22017.5	24041.1	25177.7	24623.3	24373.8	25059.9	27180.5	27520.1	24068.8
55°	16494.1	16459.4	19252.3	22994.6	25579.6	26307.3	26154.9	26397.4	28767.6	29072.5	24200.5
57.5°	11282.5	11913.1	14324.9	19148.3	23119.4	25912.3	26071.7	25669.7	26917.2	27035.0	21095.8
60°	6084.8	6348.1	8288.6	12779.4	17602.9	21116.5	21532.4	20804.7	20707.7	20375.0	15059.5
62.5°	2418.7	2550.3	3652.3	6327.3	9591.5	12834.9	13728.9	13430.9	12793.3	11920.1	7796.6
65°	1150.4	1233.6	1815.7	2959.2	4255.2	5350.2	6244.2	6521.4	4809.6	4331.4	2571.1
67.5°	783.1	845.5	1323.7	1691.0	1517.7	1587.0	2065.2	1919.7	1129.6	963.3	713.8
70°	596.0	637.6	1060.3	1150.4	679.2	478.2	533.6	499.0	464.3	471.3	464.3
72.5°	422.7	457.4	776.2	679.2	298.0	221.8	284.1	339.6	339.6	339.6	332.7
75°	256.4	291.1	450.5	263.4	117.8	117.8	180.2	228.7	242.6	249.5	235.6
77.5°	131.7	166.3	152.5	76.2	76.2	90.1	131.7	159.4	173.3	173.3	166.3
80°	27.7	27.7	27.7	41.6	76.2	97.0	131.7	145.5	166.3	166.3	152.5
82.5°	0.0	6.9	20.8	41.6	69.3	90.1	124.7	145.5	166.3	173.3	159.4
85°	0.0	6.9	13.9	27.7	48.5	55.4	48.5	41.6	41.6	41.6	41.6
87.5°	0.0	0.0	6.9	6.9	6.9	13.9	13.9	13.9	13.9	13.9	13.9
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°	9965.7	9965.7	9965.7	9965.7	9965.7	9965.7	9965.7	9965.7	9965.7	9965.7	9965.7
2.5°	10062.8	10083.5	10048.9	10042.0	10014.2	10097.4	9896.4	9847.9	9972.7	9854.8	9882.6
5°	10194.4	10242.9	10180.6	10076.6	9924.2	9688.5	9487.5	9224.2	9099.4	9009.4	8995.5
7.5°	10291.5	10326.1	10263.7	9931.1	9473.7	8877.7	8434.1	8108.4	7852.0	7775.8	7651.0
10°	10686.5	10693.4	10381.5	9646.9	8752.9	7969.8	7290.6	6791.7	6535.2	6375.9	6306.5
12.5°	10949.8	10936.0	10305.3	9085.6	7893.6	6854.0	6077.8	5474.9	5239.3	5163.1	5114.5
15°	11282.5	11206.3	10125.1	8510.4	6784.7	5662.0	4962.1	4546.3	4525.5	4477.0	4525.5
17.5°	11545.8	11331.0	9861.8	7463.9	5724.4	4664.1	4206.7	4234.4	4289.8	4338.4	4345.3
20°	11975.5	11532.0	9258.8	6549.1	4740.3	3998.8	3991.8	4116.6	4255.2	4310.6	4366.1
22.5°	12301.2	11615.1	8614.3	5571.9	3936.4	3728.5	3846.3	4033.4	4137.4	4192.8	4276.0
25°	12419.0	11386.4	7755.0	4594.8	3548.3	3603.7	3783.9	3908.7	4040.3	4102.7	4068.1
27.5°	12536.9	11268.6	6729.3	3783.9	3340.4	3520.6	3673.0	3797.8	3839.4	3922.5	3978.0
30°	12821.0	10859.7	5807.6	3271.1	3236.4	3465.1	3576.0	3617.6	3728.5	3777.0	3777.0
32.5°	13049.7	10700.3	4830.4	3028.5	3222.6	3492.9	3506.7	3506.7	3520.6	3485.9	3472.1
35°	13521.0	10152.9	3957.2	2883.0	3215.6	3499.8	3534.4	3416.6	3097.8	2973.1	2938.4
37.5°	14103.1	9799.4	3312.7	2848.3	3264.2	3583.0	3638.4	3194.9	2779.0	2578.1	2543.4
40°	14810.0	9549.9	2889.9	2834.5	3375.0	3777.0	3610.7	3021.6	2481.0	2190.0	2176.1
42.5°	15634.7	9321.2	2605.8	2827.6	3513.6	3978.0	3583.0	2876.1	2176.1	1982.1	2009.8
45°	16293.1	9196.5	2411.7	2779.0	3562.2	4095.8	3603.7	2619.6	2051.4	1926.6	1940.5
47.5°	16805.9	8933.1	2252.3	2695.9	3555.2	4137.4	3416.6	2515.7	1989.0	2023.6	2058.3
50°	16819.8	8579.7	2051.4	2515.7	3451.3	4061.1	3201.8	2418.7	1975.1	2120.7	2190.0
52.5°	16632.7	8080.7	1836.5	2259.3	3208.7	3797.8	3007.7	2377.1	1912.8	1898.9	1982.1
55°	15967.3	7145.1	1476.1	1829.6	2709.7	3132.5	2834.5	2300.9	1725.6	1566.2	1580.1
57.5°	12904.2	5121.5	1088.1	1309.8	1919.7	2293.9	2557.3	2266.2	1552.4	1330.6	1337.5
60°	7990.6	2903.8	797.0	894.0	1185.1	1393.0	2072.2	2106.8	1386.1	1122.7	1108.8
62.5°	4102.7	1434.6	616.8	630.7	727.7	817.8	1420.7	1767.2	1254.4	1067.3	1067.3
65°	1372.2	706.9	540.6	485.1	485.1	505.9	859.4	1226.7	1060.3	894.0	894.0
67.5°	589.1	526.7	471.3	422.7	388.1	367.3	485.1	713.8	790.1	679.2	651.4
70°	457.4	443.5	408.9	353.4	304.9	277.2	284.1	367.3	450.5	436.6	422.7
72.5°	339.6	339.6	325.7	277.2	235.6	201.0	187.1	194.0	214.8	221.8	228.7
75°	235.6	242.6	242.6	214.8	173.3	145.5	124.7	104.0	83.2	69.3	62.4
77.5°	159.4	166.3	180.2	159.4	131.7	97.0	76.2	55.4	34.7	13.9	13.9
80°	138.6	159.4	173.3	159.4	138.6	104.0	76.2	41.6	20.8	0.0	0.0
82.5°	145.5	159.4	180.2	152.5	131.7	97.0	76.2	48.5	20.8	6.9	0.0
85°	34.7	34.7	41.6	48.5	62.4	69.3	55.4	34.7	20.8	6.9	0.0
87.5°	13.9	13.9	13.9	13.9	13.9	6.9	6.9	6.9	6.9	0.0	0.0
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)