

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: P534012

Luminaire Tested: **GALN-SA9C-727-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-727-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44709 lumens
Efficiency: N/A
Efficacy: 93.0 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

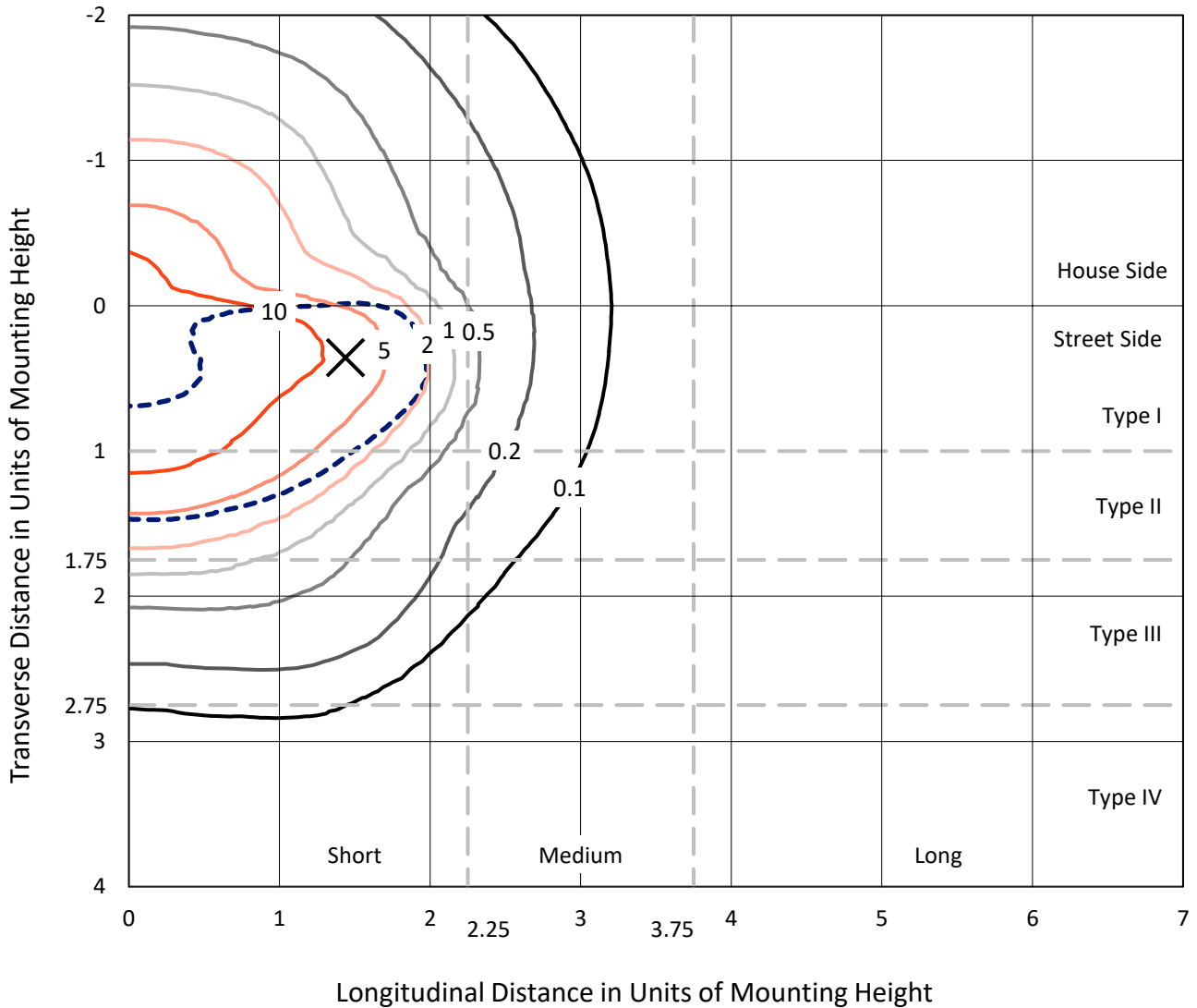
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

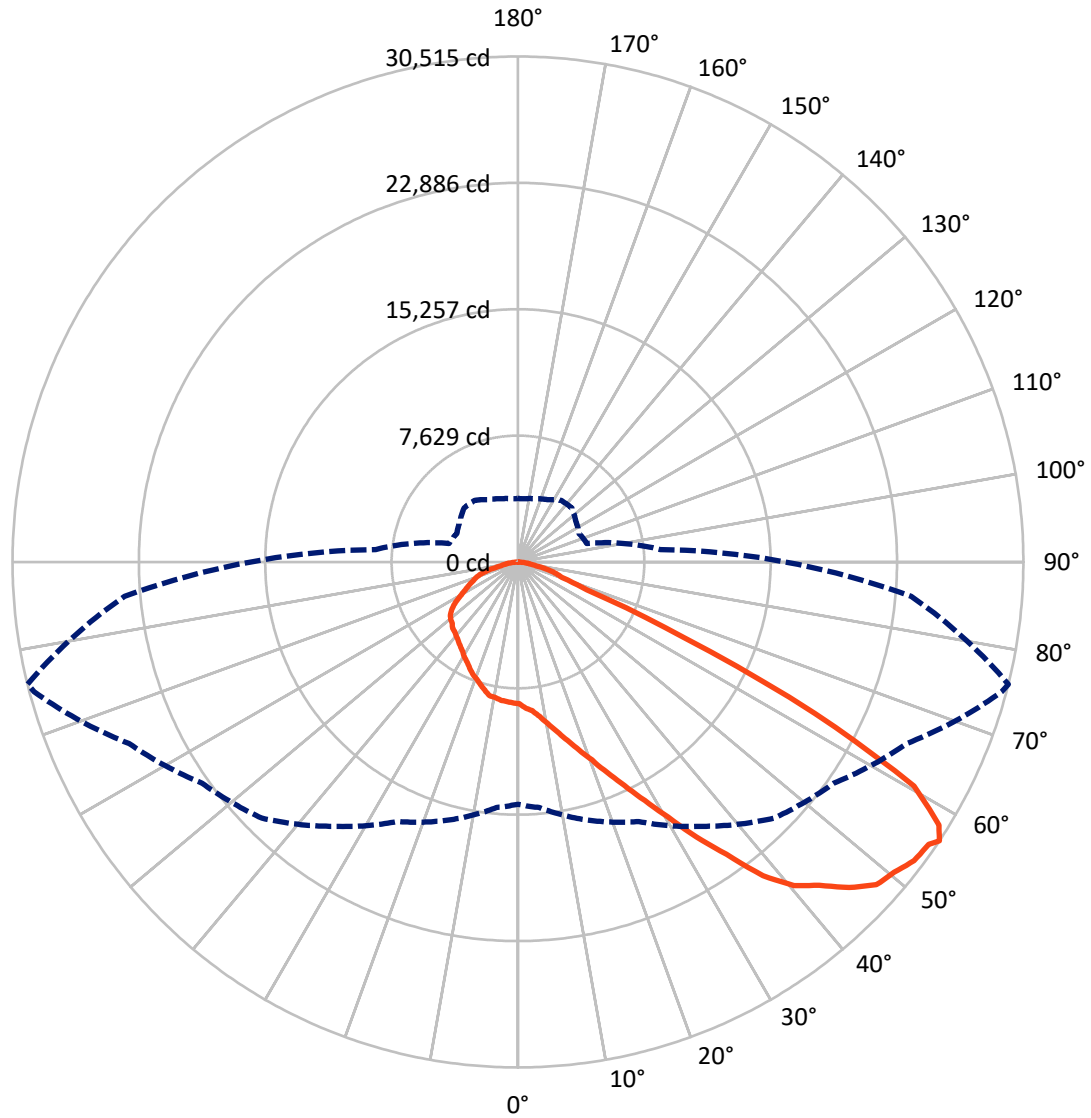
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12020.9	0.0	12020.9
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	32688.1	0.0	32688.1
	% Fixture	73.1	0.0	73.1
Total	Lumens	44709.0	0.0	44709.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	848.3	1.9
10°-20°	2664.9	6.0
20°-30°	4660.6	10.4
30°-40°	7297.2	16.3
40°-50°	10615.3	23.7
50°-60°	11666.9	26.1
60°-70°	5207.6	11.6
70°-80°	1504.2	3.4
80°-90°	244.0	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°	44709.0	100.0
0°-180°	44709.0	100.0

Coefficient of Utilization

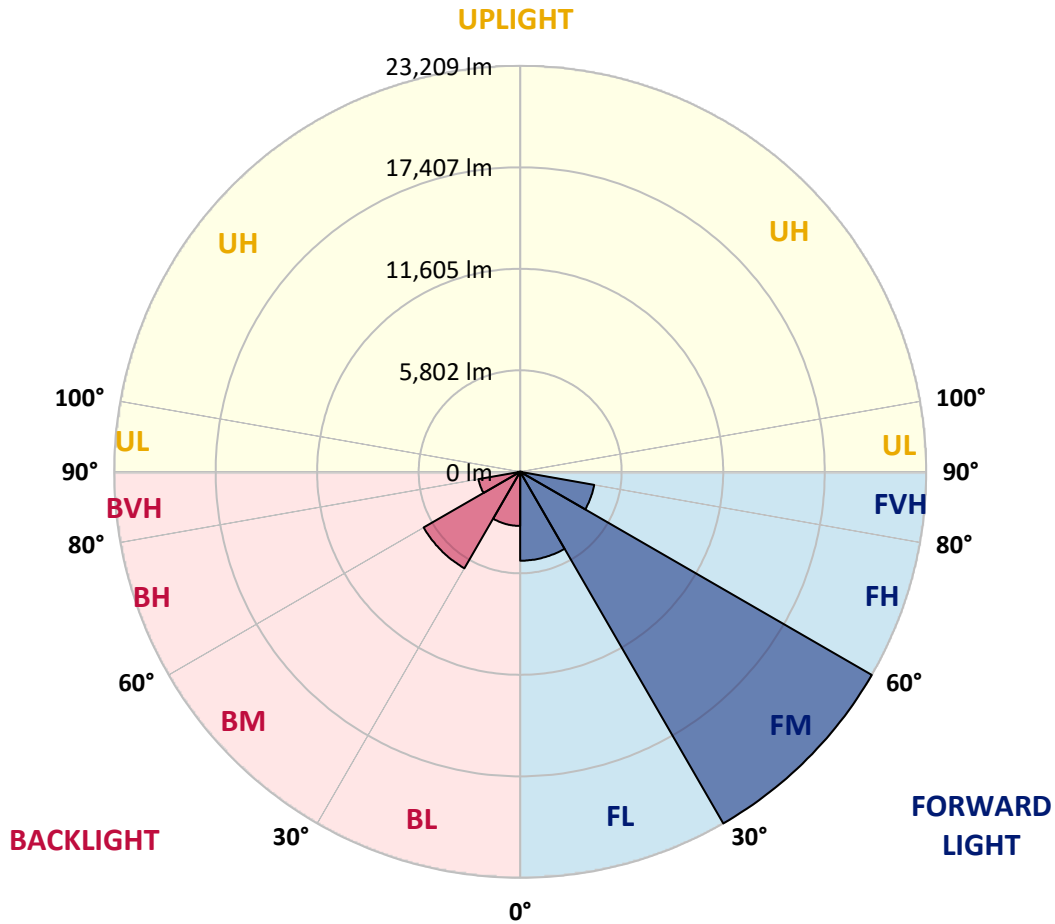


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5080.7	11.4			
FM (30°-60°)	23209.3	51.9			
FH (60°-80°)	4293.1	9.6			G2/5000
FVH (80°-90°)	105.0	0.2			G2/225
BL (0°-30°)	3093.2	6.9	B4/5000		
BM (30°-60°)	6370.1	14.2	B4/8500		
BH (60°-80°)	2418.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	139.0	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°	55°	65°	75°	76°	85°
0°	8554.5	8554.5	8554.5	8554.5	8554.5	8554.5	8554.5	8554.5	8554.5	8554.5	8554.5
2.5°	9423.9	9273.2	9261.6	9221.0	9244.2	9139.9	9029.7	8884.8	8734.2	8826.9	8606.7
5°	10084.6	9881.7	9962.9	9823.8	9841.1	9702.0	9476.0	9307.9	9122.5	9012.4	8855.9
7.5°	10316.4	10333.8	10391.7	10368.6	10252.6	10252.6	10102.0	9806.4	9481.8	9418.1	9157.2
10°	10629.4	10635.2	10571.4	10588.8	10751.1	10675.7	10542.4	10414.9	9997.6	9922.3	9458.6
12.5°	10739.5	10635.2	10739.5	10832.2	11023.5	11127.8	11098.8	11006.1	10559.8	10507.7	9829.6
15°	10756.9	10693.1	10780.1	10988.7	11156.8	11597.2	11817.5	11753.7	11162.6	11168.4	10246.8
17.5°	10675.7	10762.7	10797.4	10977.1	11365.4	11776.9	12414.4	12501.4	12014.5	11939.2	10774.3
20°	10785.8	10722.1	10768.5	10930.7	11446.6	12089.9	12924.5	13498.2	12814.4	12762.2	11319.1
22.5°	11208.9	11122.0	11110.4	11214.7	11585.7	12252.2	13463.5	14495.1	13788.0	13817.0	11997.2
25°	11539.3	11585.7	11545.1	11539.3	11771.1	12495.6	14176.3	15683.2	15109.5	14941.4	12797.0
27.5°	12107.3	12217.4	12136.3	12246.4	12194.2	12860.7	14686.4	16998.9	16535.2	16309.2	13521.4
30°	12895.5	12953.4	12878.1	12878.1	12721.6	13370.7	15150.0	18372.5	18181.2	17874.0	14373.4
32.5°	13932.9	14019.9	13869.2	13782.2	13759.1	14130.0	15984.6	19728.7	20053.2	19792.4	15503.6
35°	15306.5	15254.4	15074.7	14993.5	14680.6	15294.9	17224.9	21287.7	22139.7	21676.0	16871.4
37.5°	16517.8	16436.7	16425.1	15973.0	16048.4	16552.6	18279.7	22470.0	24162.4	24029.1	18314.5
40°	17648.0	17723.3	17845.0	17590.0	17474.1	18030.5	19508.4	23374.2	25733.0	25680.9	19427.3
42.5°	18859.3	18789.7	19004.2	18789.7	18615.9	19404.1	20841.4	24000.1	27112.4	26683.5	20592.2
45°	20615.4	20395.2	20470.5	20487.9	20360.4	20650.2	21392.0	24452.2	28080.3	28033.9	21444.2
47.5°	22081.7	22087.5	21960.0	21861.5	21473.2	21763.0	22006.4	24736.2	29193.1	29117.7	21774.5
50°	22626.5	22551.2	22922.1	23136.5	23159.7	22568.6	22487.4	24892.6	29778.4	29448.1	22104.9
52.5°	20667.6	20737.1	21322.5	22597.5	23333.6	23397.3	23049.6	25217.2	30016.1	29946.5	22371.5
55°	16633.7	16969.9	17932.0	19404.1	21148.6	23067.0	23658.2	25553.4	30143.6	30085.6	23553.8
56°	14622.6	14883.4	16135.3	17288.7	19479.4	21867.3	23275.6	25912.7	30242.1	30514.5	23832.0
57.5°	11771.1	12072.5	12970.8	14280.7	16865.6	19583.8	22220.8	25472.2	29859.6	29963.9	24034.9
60°	7360.6	7389.6	8467.6	9331.1	11151.0	13805.4	16958.3	22162.9	27634.0	27483.3	21589.1
62.5°	4827.8	4833.6	5813.1	6520.2	7349.0	7957.5	9980.2	14698.0	20389.4	20122.8	15370.3
65°	3390.5	3465.8	4225.1	5169.8	5505.9	5187.2	5123.4	7748.9	11388.6	11006.1	8258.9
67.5°	2480.6	2486.4	3158.7	4172.9	4659.8	3946.9	3205.0	3784.6	4509.1	4497.5	3825.2
70°	1640.2	1709.7	2225.6	3118.1	3674.5	3170.3	2619.7	2706.6	2868.9	2868.9	2845.7
72.5°	956.3	1020.0	1362.0	1976.3	2063.3	1982.1	2074.9	2318.3	2422.6	2416.8	2387.8
75°	544.8	573.8	649.1	823.0	1025.8	1211.3	1524.3	1756.1	1860.4	1924.2	1848.8
77.5°	318.8	336.2	382.5	469.5	533.2	654.9	828.8	991.1	1130.2	1112.8	1124.4
80°	168.1	168.1	214.4	278.2	370.9	463.7	550.6	643.3	718.7	736.1	753.4
82.5°	98.5	104.3	139.1	202.9	266.6	330.4	423.1	486.8	556.4	562.2	573.8
85°	52.2	58.0	86.9	133.3	179.7	202.9	208.6	197.1	214.4	202.9	231.8
87.5°	17.4	17.4	29.0	23.2	23.2	29.0	34.8	34.8	46.4	46.4	46.4
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°	8554.5	8554.5	8554.5	8554.5	8554.5	8554.5	8554.5	8554.5	8554.5	8554.5	8554.5
2.5°	8600.9	8600.9	8502.3	8316.9	8287.9	8212.5	8143.0	8137.2	8085.0	8038.7	8015.5
5°	8763.1	8583.5	8438.6	8270.5	8073.4	7980.7	7876.4	7760.5	7714.1	7760.5	7754.7
7.5°	8948.6	8797.9	8363.2	8050.3	7824.2	7731.5	7615.6	7493.9	7505.5	7505.5	7424.3
10°	9128.3	8925.4	8229.9	7830.0	7499.7	7430.1	7366.4	7412.7	7470.7	7482.3	7430.1
12.5°	9429.6	8971.8	8166.2	7609.8	7401.1	7250.5	7291.0	7418.5	7540.2	7505.5	7546.0
15°	9655.7	9012.4	7876.4	7383.8	7122.9	7192.5	7337.4	7424.3	7627.2	7604.0	7644.6
17.5°	9875.9	9035.5	7592.4	7082.4	6972.3	7163.5	7273.6	7522.9	7586.6	7725.7	7777.9
20°	10328.0	9081.9	7302.6	6896.9	6862.1	7082.4	7273.6	7389.6	7528.6	7650.4	7650.4
22.5°	10559.8	9058.7	7111.4	6653.5	6763.6	6902.7	7076.6	7273.6	7273.6	7389.6	7395.3
25°	10849.6	8966.0	6810.0	6537.6	6618.7	6752.0	6949.1	6879.5	6954.9	6954.9	7047.6
27.5°	11180.0	8768.9	6549.2	6328.9	6491.2	6636.1	6665.1	6618.7	6531.8	6520.2	6485.4
30°	11446.6	8525.5	6357.9	6259.4	6392.7	6473.8	6381.1	6282.6	6131.9	6120.3	6039.1
32.5°	11811.7	8224.1	6120.3	6085.5	6236.2	6242.0	6213.0	6062.3	5842.1	5749.4	5656.6
35°	12426.0	8050.3	5940.6	5992.8	6039.1	6021.8	5969.6	5807.3	5587.1	5546.5	5511.7
37.5°	12878.1	7922.8	5755.2	5818.9	5859.5	5882.7	5726.2	5546.5	5552.3	5471.2	5448.0
40°	13388.1	7841.6	5604.5	5633.4	5639.2	5714.6	5523.3	5436.4	5477.0	5424.8	5459.6
42.5°	14043.0	7864.8	5448.0	5424.8	5534.9	5505.9	5413.2	5297.3	5320.5	5164.0	5187.2
45°	14390.8	8021.3	5355.3	5250.9	5372.6	5366.8	5245.1	5135.0	4995.9	4694.5	4706.1
47.5°	14622.6	8061.9	5135.0	5065.5	5193.0	5268.3	5129.2	4874.2	4677.2	4462.7	4410.5
50°	14860.2	8137.2	5030.7	4885.8	4938.0	5117.6	4943.8	4700.3	4509.1	4317.8	4346.8
52.5°	15068.9	8282.1	4827.8	4613.4	4706.1	4903.2	4810.5	4514.9	4306.2	4149.7	4103.4
55°	15996.2	8606.7	4485.9	4207.7	4427.9	4677.2	4625.0	4265.7	4039.6	3958.5	3946.9
56°	16141.1	8618.2	4306.2	4068.6	4271.5	4601.8	4538.1	4155.5	3952.7	3825.2	3831.0
57.5°	16164.3	8479.1	4051.2	3941.1	4115.0	4491.7	4410.5	4068.6	3790.4	3674.5	3639.7
60°	14222.7	6618.7	3732.4	3662.9	3865.7	4155.5	4126.6	3831.0	3518.0	3384.7	3448.5
62.5°	9696.3	4851.0	3483.2	3471.6	3576.0	3860.0	3784.6	3518.0	3257.2	3170.3	3129.7
65°	5645.0	3680.3	3239.8	3193.4	3280.4	3431.1	3483.2	3205.0	2932.6	2874.7	2857.3
67.5°	3332.5	3042.8	2926.8	2851.5	2822.5	2915.3	2955.8	2793.5	2521.1	2440.0	2509.5
70°	2787.7	2706.6	2712.4	2584.9	2515.3	2451.6	2416.8	2271.9	2045.9	1941.6	1912.6
72.5°	2405.2	2370.5	2347.3	2231.4	2167.6	2022.7	1872.0	1727.1	1559.1	1472.1	1477.9
75°	1837.2	1825.7	1837.2	1779.3	1669.2	1553.3	1414.2	1228.7	1101.2	991.1	1014.3
77.5°	1095.4	1130.2	1147.6	1124.4	1078.0	973.7	886.7	765.0	643.3	556.4	544.8
80°	753.4	782.4	811.4	782.4	736.1	660.7	568.0	475.2	388.3	341.9	330.4
82.5°	573.8	602.8	620.1	591.2	533.2	452.1	388.3	324.6	255.0	208.6	197.1
85°	208.6	237.6	231.8	278.2	301.4	289.8	249.2	191.3	144.9	104.3	98.5
87.5°	58.0	52.2	58.0	58.0	58.0	52.2	46.4	46.4	46.4	29.0	23.2
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)