

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: P530322

Luminaire Tested: **GALN-SA5C-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530322
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-735-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28821 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

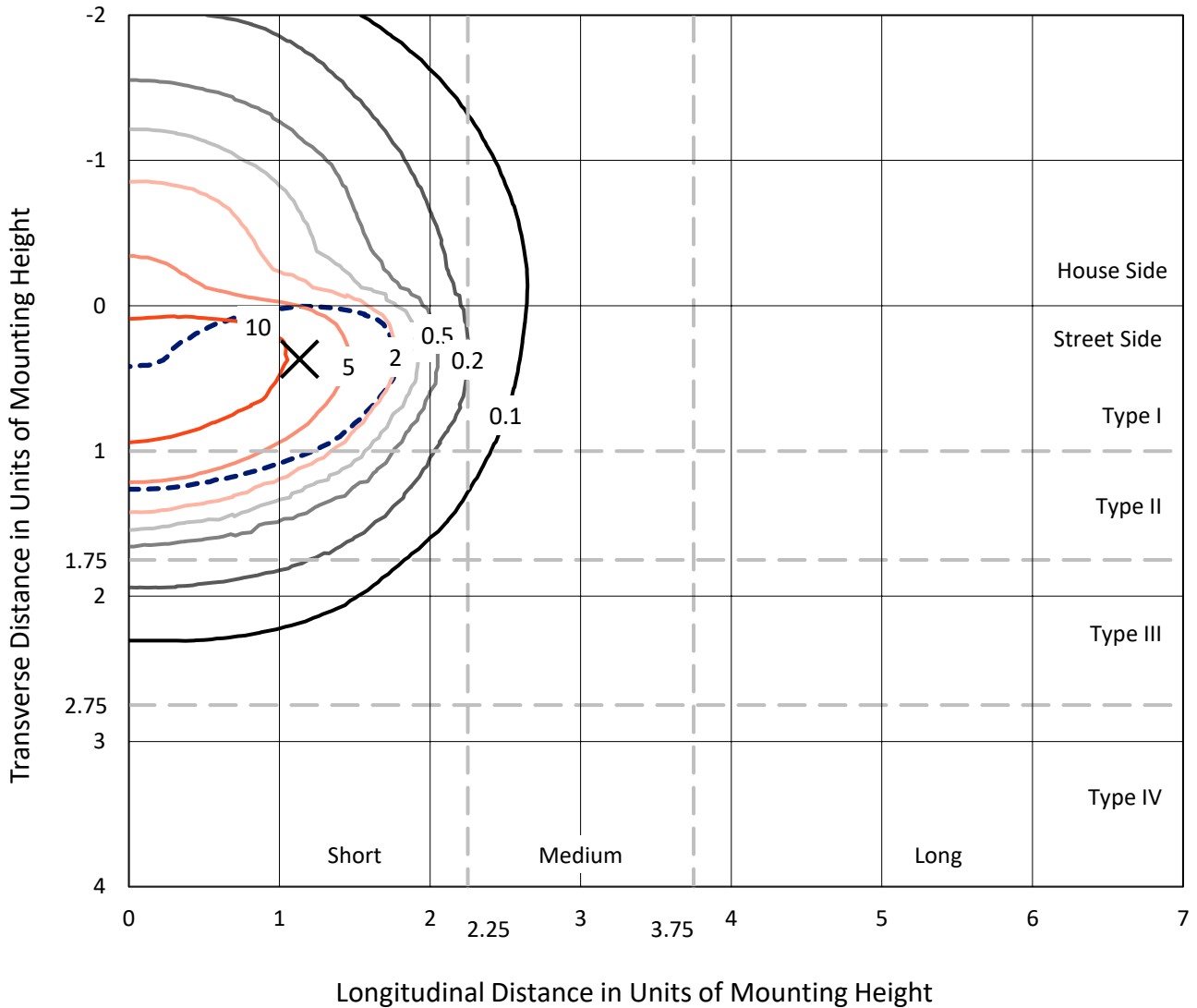
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

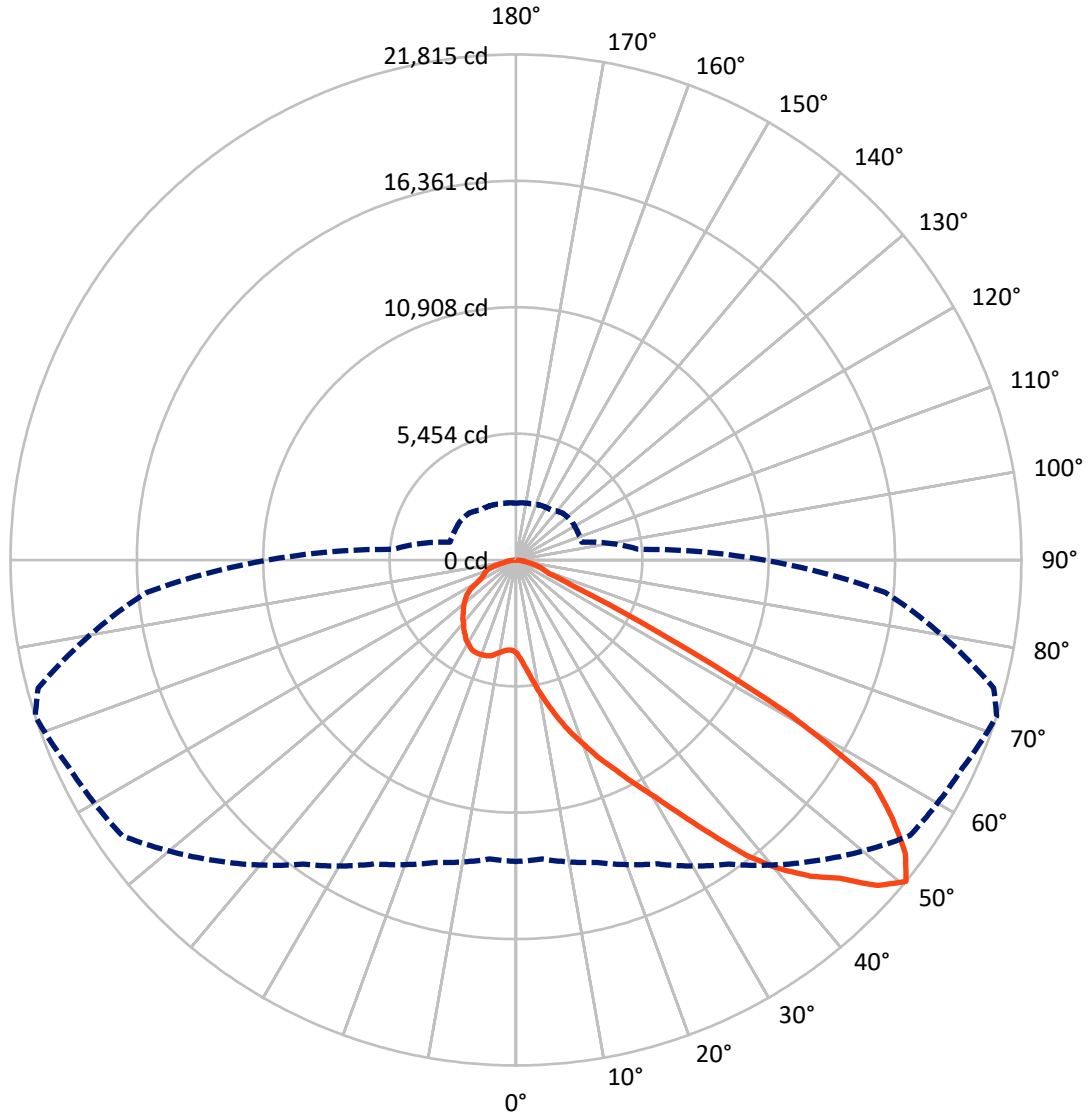
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6603.1	0.0	6603.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	22217.9	0.0	22217.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	28821.0	0.0	28821.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.9	1.6
10°-20°	1764.2	6.1
20°-30°	3420.7	11.9
30°-40°	5666.9	19.7
40°-50°	7929.3	27.5
50°-60°	6689.4	23.2
60°-70°	2038.9	7.1
70°-80°	715.3	2.5
80°-90°	124.4	0.4
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°	28821.0	100.0
0°-180°	28821.0	100.0

Coefficient of Utilization



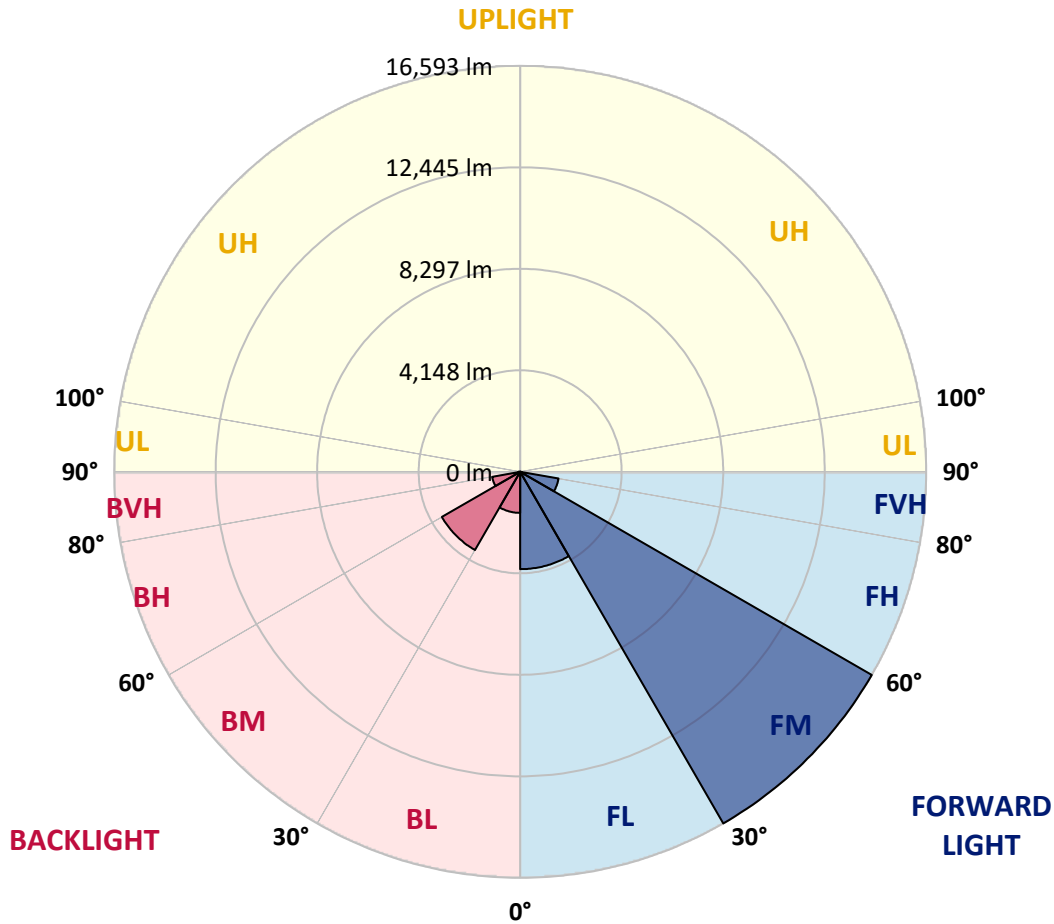
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3978.3	13.8			
FM (30°-60°)	16593.0	57.6			
FH (60°-80°)	1590.9	5.5			G1/1800
FVH (80°-90°)	55.7	0.2			G1/100
BL (0°-30°)	1678.5	5.8	B3/2500		
BM (30°-60°)	3692.5	12.8	B3/5000		
BH (60°-80°)	1163.3	4.0	B3/2500		G3/2500
BVH (80°-90°)	68.7	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°	55°	65°	72°	75°	85°
0°	4012.1	4012.1	4012.1	4012.1	4012.1	4012.1	4012.1	4012.1	4012.1	4012.1	4012.1
2.5°	5160.5	5128.4	5032.1	5000.0	4885.9	4679.0	4607.7	4397.3	4308.1	4226.1	4129.8
5°	6526.4	6376.6	6365.9	6184.0	5920.1	5766.8	5310.3	5003.6	4721.8	4579.2	4315.3
7.5°	7396.6	7400.1	7400.1	7250.4	7039.9	6651.2	6241.1	5688.3	5263.9	5053.5	4604.1
10°	8224.0	8152.6	8113.4	8099.2	7956.5	7578.5	7139.8	6455.1	5873.8	5627.7	4821.7
12.5°	8808.9	8748.2	8837.4	8791.0	8687.6	8441.5	8027.8	7246.8	6519.3	6187.6	5171.2
15°	9087.0	9129.8	9201.1	9329.5	9283.2	9190.5	8734.0	8059.9	7214.7	6840.2	5481.5
17.5°	9515.0	9397.3	9482.9	9643.4	9771.8	9729.0	9468.6	8648.4	7903.0	7442.9	5898.7
20°	9814.6	9746.8	9789.6	9975.0	10071.3	10313.8	10178.3	9418.7	8562.8	8077.8	6390.9
22.5°	10670.5	10570.6	10431.5	10460.1	10495.7	10666.9	10699.0	10263.9	9329.5	8816.0	6858.1
25°	11726.1	11633.4	11469.3	11301.7	11198.3	11166.2	11276.8	10927.3	10064.2	9532.8	7360.9
27.5°	12888.7	12731.8	12628.4	12282.5	12004.3	11961.5	11908.0	11719.0	10934.4	10360.2	7928.0
30°	14019.3	13894.4	13755.4	13202.6	12913.7	12867.3	12603.4	12656.9	11879.5	11241.1	8569.9
32.5°	14875.2	14885.9	14568.5	14151.2	13880.2	13634.1	13537.8	13691.2	13092.0	12578.5	9286.7
35°	15567.1	15599.2	15296.0	14918.0	14625.5	14796.7	14753.9	14825.3	14540.0	13912.3	10121.3
37.5°	16241.1	16080.6	15756.1	15574.2	15420.8	15702.6	16066.3	16127.0	16180.5	15442.2	11091.3
40°	16351.7	16365.9	16176.9	16305.3	16112.7	16537.1	17382.3	17303.9	17521.4	16875.9	12143.4
42.5°	16194.7	16226.8	16301.7	16483.6	16947.2	17457.2	18712.6	18391.6	18655.5	18081.3	13166.9
45°	15938.0	15806.0	15898.7	16590.6	17393.0	18527.1	19928.7	19679.0	19593.5	19112.0	14386.6
47.5°	14711.1	14846.7	15135.5	15987.9	17193.3	18712.6	20791.7	20734.7	20991.5	20652.7	15495.7
50°	13010.0	12956.5	13512.9	14472.2	16027.1	18348.8	20745.4	21262.5	21815.3	21344.5	15991.5
52.5°	9743.2	10028.5	10506.4	11697.6	13915.8	16365.9	19732.5	20595.6	21045.0	20945.1	15592.0
55°	6159.1	6244.7	6533.5	7949.4	9946.5	13134.8	16915.1	18915.9	19718.3	20092.7	15224.7
57.5°	2992.2	2831.7	3184.7	4322.4	5745.4	8833.8	13045.7	16476.5	18220.4	18898.0	14425.8
60°	1562.1	1622.7	1761.8	2168.3	2970.8	4586.3	8131.2	10980.8	13644.8	14686.2	10934.4
62.5°	1294.6	1316.0	1408.7	1612.0	1975.8	2639.1	4151.2	5353.1	6957.9	7895.9	6219.7
65°	1098.4	1109.1	1209.0	1344.5	1576.3	1858.1	2136.2	2236.1	2706.8	2778.2	2211.1
67.5°	916.5	927.2	1034.2	1162.6	1312.4	1387.3	1458.6	1451.5	1505.0	1483.6	1480.0
70°	706.1	716.8	827.4	962.9	1037.8	995.0	1216.1	1266.0	1287.4	1305.3	1333.8
72.5°	510.0	531.4	617.0	713.3	674.0	773.9	1002.1	1077.0	1105.6	1116.3	1151.9
75°	370.9	378.0	399.4	370.9	428.0	538.5	706.1	798.9	834.5	845.2	898.7
77.5°	164.1	167.6	171.2	214.0	274.6	335.2	420.8	495.7	545.6	559.9	574.2
80°	85.6	89.2	110.6	146.2	196.1	246.1	306.7	349.5	381.6	385.2	399.4
82.5°	53.5	57.1	78.5	103.4	139.1	181.9	224.7	260.3	285.3	288.9	292.4
85°	25.0	32.1	46.4	64.2	92.7	117.7	121.3	103.4	110.6	114.1	107.0
87.5°	7.1	10.7	14.3	10.7	14.3	14.3	17.8	21.4	21.4	21.4	25.0
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°	4012.1	4012.1	4012.1	4012.1	4012.1	4012.1	4012.1	4012.1	4012.1	4012.1	4012.1
2.5°	4076.3	4044.2	3919.4	3873.0	3751.8	3773.2	3709.0	3705.4	3691.2	3687.6	3684.0
5°	4176.2	4076.3	3926.5	3812.4	3744.7	3737.5	3691.2	3691.2	3705.4	3716.1	3691.2
7.5°	4340.2	4226.1	3972.9	3865.9	3805.3	3794.6	3762.5	3737.5	3769.6	3758.9	3730.4
10°	4529.2	4329.5	4062.1	3969.3	3869.5	3844.5	3844.5	3855.2	3801.7	3819.5	3791.0
12.5°	4739.7	4472.2	4176.2	4069.2	3951.5	3937.2	3930.1	3851.6	3880.2	3865.9	3794.6
15°	5007.1	4636.2	4322.4	4140.5	4040.7	3976.5	3883.7	3869.5	3851.6	3816.0	3783.9
17.5°	5296.0	4814.6	4390.2	4161.9	4012.1	3965.8	3894.4	3819.5	3766.1	3773.2	3748.2
20°	5542.1	4978.6	4415.1	4183.3	3990.7	3901.6	3791.0	3744.7	3687.6	3684.0	3680.5
22.5°	5834.5	5199.7	4450.8	4126.3	3926.5	3833.8	3758.9	3676.9	3637.7	3587.7	3612.7
25°	6184.0	5285.3	4457.9	4094.2	3880.2	3716.1	3676.9	3587.7	3573.5	3502.1	3516.4
27.5°	6437.2	5331.7	4400.9	3994.3	3773.2	3648.4	3577.0	3512.8	3487.9	3434.4	3420.1
30°	6776.0	5403.0	4279.6	3869.5	3666.2	3527.1	3484.3	3470.0	3398.7	3341.7	3334.5
32.5°	7161.2	5449.4	4201.1	3741.1	3555.6	3448.6	3470.0	3402.3	3313.1	3263.2	3248.9
35°	7467.9	5467.2	4005.0	3594.9	3480.7	3413.0	3388.0	3373.8	3245.4	3199.0	3163.3
37.5°	7935.1	5428.0	3840.9	3491.4	3398.7	3373.8	3352.4	3256.1	3109.8	3042.1	2992.2
40°	8480.7	5417.3	3630.5	3345.2	3320.3	3348.8	3284.6	3134.8	2931.5	2856.6	2821.0
42.5°	9005.0	5492.2	3498.6	3266.8	3234.7	3245.4	3156.2	2931.5	2831.7	2788.9	2731.8
45°	9882.3	5649.1	3281.0	3145.5	3131.2	3124.1	3017.1	2781.7	2724.7	2671.2	2660.5
47.5°	10674.0	5545.7	3141.9	3020.7	3035.0	2995.7	2767.5	2692.6	2628.4	2574.9	2557.1
50°	10720.4	5299.6	2945.8	2924.4	2928.0	2860.2	2642.7	2592.7	2510.7	2475.0	2450.1
52.5°	10477.9	4896.6	2763.9	2771.0	2781.7	2671.2	2489.3	2453.6	2385.9	2336.0	2321.7
55°	9796.7	4268.9	2585.6	2614.1	2642.7	2432.2	2375.2	2286.0	2232.5	2161.2	2164.8
57.5°	8630.5	3437.9	2336.0	2382.3	2442.9	2211.1	2168.3	2057.8	1979.3	1922.3	1915.1
60°	5784.6	2446.5	1961.5	1979.3	2114.8	2022.1	2018.5	1908.0	1801.0	1751.1	1722.5
62.5°	3413.0	1868.8	1694.0	1676.2	1672.6	1726.1	1815.3	1776.0	1636.9	1540.7	1569.2
65°	1786.7	1615.6	1576.3	1515.7	1480.0	1465.8	1533.5	1551.4	1458.6	1355.2	1348.1
67.5°	1501.4	1501.4	1469.3	1447.9	1398.0	1337.4	1294.6	1237.5	1223.3	1194.7	1159.1
70°	1365.9	1401.6	1390.9	1340.9	1298.1	1230.4	1119.8	1027.1	937.9	905.8	927.2
72.5°	1191.2	1226.8	1226.8	1201.9	1144.8	1041.4	934.4	827.4	752.5	695.4	688.3
75°	916.5	934.4	977.2	948.6	873.8	809.6	699.0	588.4	517.1	463.6	452.9
77.5°	584.9	613.4	613.4	609.8	556.3	495.7	424.4	345.9	292.4	253.2	242.5
80°	388.7	406.6	420.8	406.6	370.9	324.5	271.0	217.5	178.3	146.2	139.1
82.5°	285.3	306.7	317.4	303.1	267.5	231.8	192.6	153.4	114.1	89.2	82.0
85°	110.6	114.1	128.4	153.4	149.8	146.2	117.7	85.6	64.2	46.4	42.8
87.5°	28.5	25.0	28.5	28.5	25.0	21.4	21.4	21.4	21.4	10.7	14.3
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)