

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: P534056

Luminaire Tested: **GALN-SA9C-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-735-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50323 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

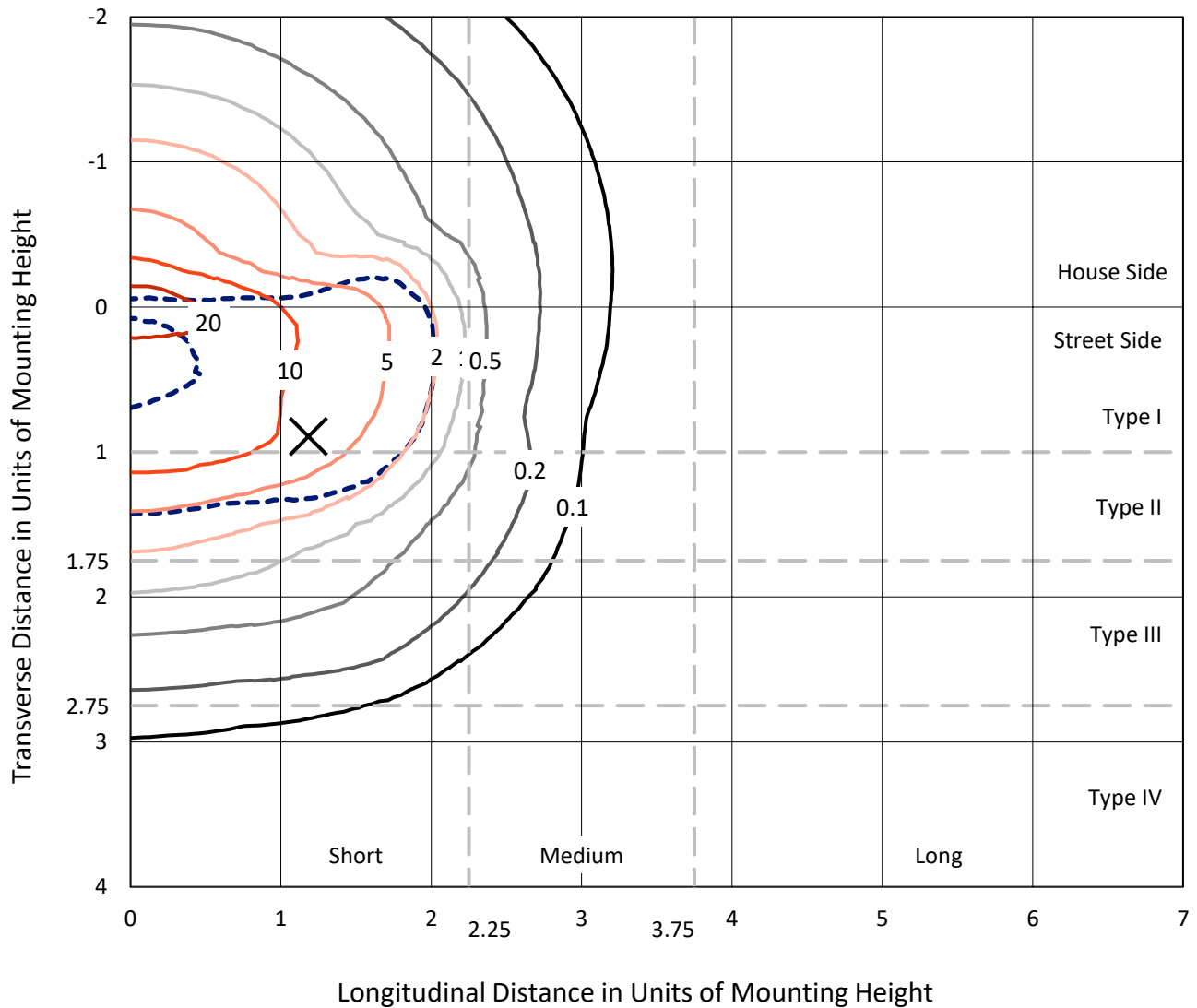
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P534056
 CATALOG NUMBER: GALN-SA9C-735-U-SL2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

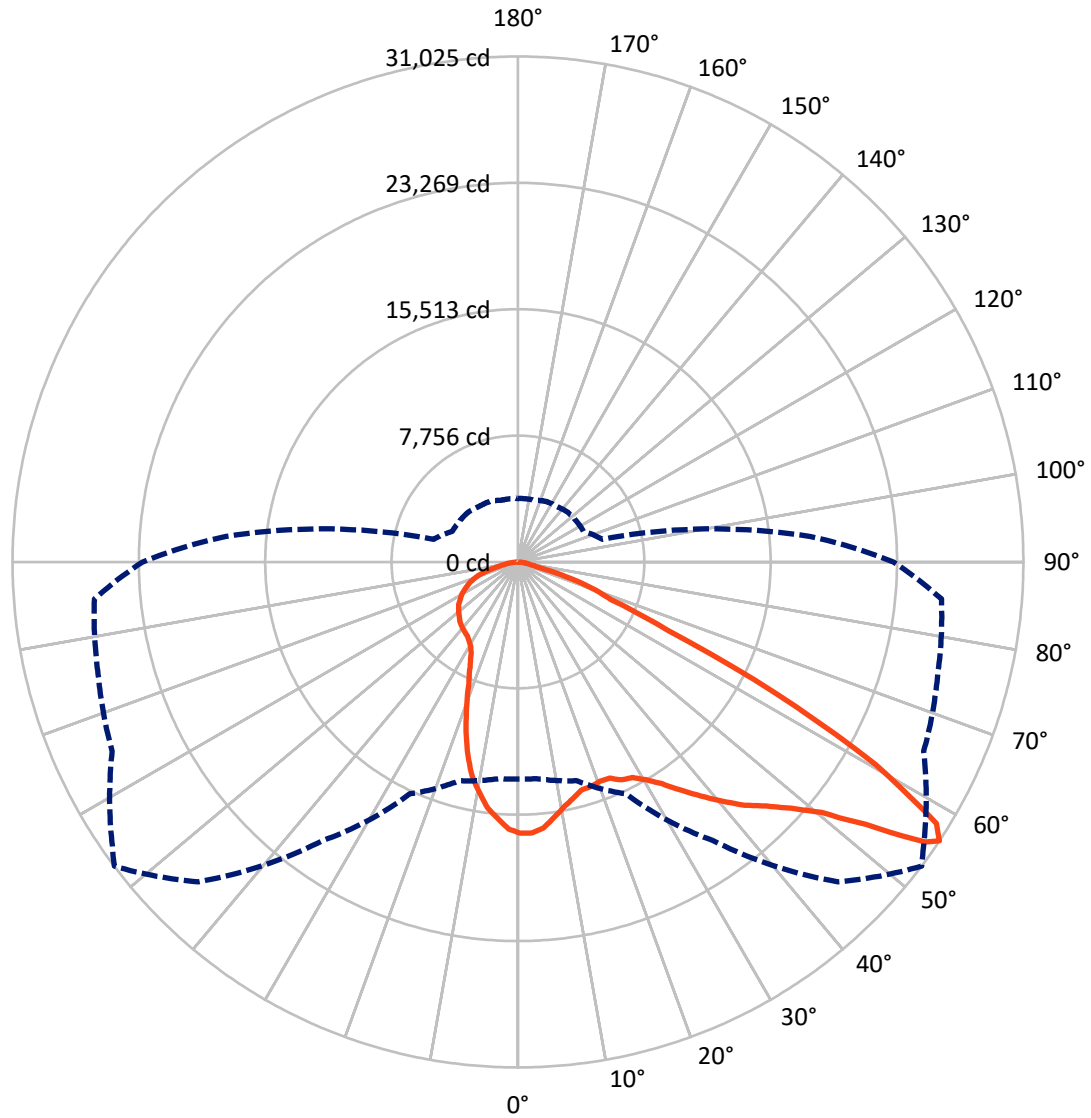
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.6 fc
 Type II - Short - N/A

REPORT NUMBER: P534056
CATALOG NUMBER: GALN-SA9C-735-U-SL2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P534056
 CATALOG NUMBER: GALN-SA9C-735-U-SL2-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14685.3	0.0	14685.3
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	35637.7	0.0	35637.7
	% Fixture	70.8	0.0	70.8
Total	Lumens	50323.0	0.0	50323.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1473.9	2.9
10°-20°	3681.1	7.3
20°-30°	5428.2	10.8
30°-40°	7755.8	15.4
40°-50°	10674.8	21.2
50°-60°	12614.8	25.1
60°-70°	6722.8	13.4
70°-80°	1705.5	3.4
80°-90°	266.0	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°	50323.0	100.0
0°-180°	50323.0	100.0



REPORT NUMBER: P534056

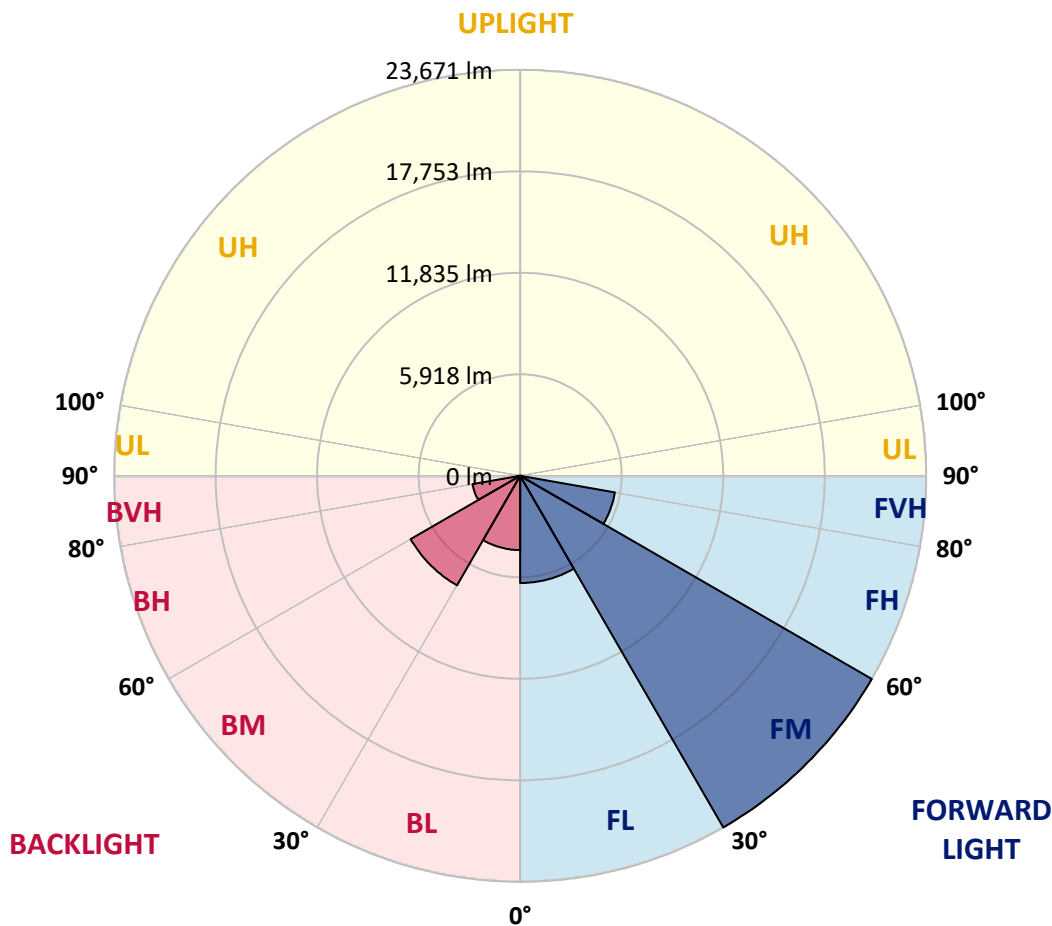
CATALOG NUMBER: GALN-SA9C-735-U-SL2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6251.9	12.4			
FM (30°-60°)	23671.0	47.0			
FH (60°-80°)	5607.9	11.1			G3/7500
FVH (80°-90°)	106.9	0.2			G2/225
BL (0°-30°)	4331.3	8.6	B4/5000		
BM (30°-60°)	7374.5	14.7	B4/8500		
BH (60°-80°)	2820.5	5.6	B4/5000		G4/5000
BVH (80°-90°)	159.0	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-G4

Type II Short





REPORT NUMBER: P534056

CATALOG NUMBER: GALN-SA9C-735-U-SL2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	16648.8	16648.8	16648.8	16648.8	16648.8	16648.8	16648.8	16648.8	16648.8	16648.8	16648.8
2.5°	16442.3	16300.2	16384.2	16351.9	16616.6	16694.0	16655.3	16687.6	16836.0	16765.0	16616.6
5°	15364.2	15564.3	15603.0	15699.9	15854.8	16158.2	16397.1	16461.6	16532.6	16861.9	16829.6
7.5°	14382.9	14518.5	14447.5	14731.5	15067.2	15557.8	15848.3	15900.0	16552.0	16732.8	16868.3
10°	13763.2	13627.6	13950.4	14027.9	14408.8	14970.4	15319.0	15532.0	16125.9	16842.5	16926.4
12.5°	13188.7	13143.5	13337.1	13556.6	13982.7	14563.7	14918.7	15002.7	15919.4	16674.7	17068.4
15°	12762.6	12711.0	12904.6	13066.0	13563.1	14079.5	14531.4	14770.3	15693.4	16577.8	16945.8
17.5°	12426.9	12420.5	12530.2	12820.7	13330.7	13763.2	14492.7	14505.6	15577.2	16726.3	17049.1
20°	12407.5	12401.1	12420.5	12743.2	13208.0	13737.4	14370.0	14486.2	15577.2	16623.0	17055.5
22.5°	12568.9	12465.6	12581.8	12788.4	13124.1	13782.6	14415.2	14673.4	15951.6	17133.0	17346.0
25°	12827.2	12853.0	12917.5	12988.5	13182.2	13885.9	14815.5	15028.5	16390.6	17572.0	17746.3
27.5°	13298.4	13285.5	13311.3	13350.1	13517.9	13982.7	14976.8	15525.6	17307.3	18353.1	18178.8
30°	13989.2	13944.0	14047.2	14182.8	14027.9	14292.6	15512.7	15925.8	18159.4	19140.7	18663.0
32.5°	14615.3	14783.2	14976.8	15034.9	14847.7	14899.4	16222.8	16642.4	18869.5	20109.0	19256.9
35°	15396.5	15532.0	15790.2	15971.0	15938.7	15783.8	17191.1	17746.3	19896.0	20819.1	19883.1
37.5°	16158.2	16319.6	16745.7	17281.5	16984.5	16913.5	18224.0	18682.3	20212.3	21200.0	20341.4
40°	17384.8	17378.3	18114.2	18391.8	18656.5	18533.8	19295.6	19450.5	20380.1	21116.1	20354.3
42.5°	18824.3	18734.0	19482.8	19915.3	20257.5	20270.4	20412.4	20360.8	20457.6	20690.0	20218.7
45°	20192.9	20386.6	21141.9	21916.6	22258.7	22297.4	21354.9	21258.1	20593.2	20567.3	19960.5
47.5°	21864.9	21910.1	22529.8	23549.8	24343.8	24072.7	22575.0	22362.0	21187.1	21387.2	20393.0
50°	21961.7	22297.4	22852.6	24053.3	26493.5	26422.5	24156.6	23756.4	22142.5	22549.2	21600.2
52.5°	19934.7	19857.2	20515.7	22478.2	26332.1	28759.4	26777.6	25822.2	24195.4	23885.5	23556.3
55°	15189.9	15370.6	15951.6	17933.5	22865.5	28791.7	30347.5	29566.4	26390.2	25860.9	25480.0
56°	13324.2	13350.1	13898.8	15706.3	20864.3	27765.3	31025.3	30392.7	27481.2	26674.3	26093.3
57.5°	11045.4	10896.9	11181.0	12168.7	17610.7	25596.2	30282.9	30902.7	28759.4	27552.2	26745.3
60°	8695.6	8663.3	8547.1	8727.9	11129.3	19282.7	25208.9	26603.3	28630.3	26725.9	25615.6
62.5°	7101.1	6939.7	7172.1	7430.3	7733.7	11962.1	17714.0	18533.8	22729.9	21335.6	19244.0
65°	5506.6	5429.1	5719.6	6558.8	6739.6	7598.2	10090.0	10722.6	13421.1	13182.2	11607.1
67.5°	3789.4	3802.3	4054.1	5332.3	6249.0	6171.5	6177.9	6507.2	7004.3	5203.2	4531.8
70°	2401.5	2395.0	2530.6	3434.3	5028.9	5080.5	4822.3	4725.5	4480.1	2711.3	2872.7
72.5°	1542.9	1497.7	1568.7	1897.9	2601.6	3008.3	3098.7	3156.8	2595.1	2130.3	2311.1
75°	871.5	826.3	800.5	884.4	1026.4	1187.8	1304.0	1342.8	1504.1	1613.9	1710.7
77.5°	264.7	238.9	290.5	387.3	510.0	684.3	832.8	858.6	1013.5	1142.6	1239.5
80°	116.2	129.1	180.8	258.2	361.5	484.2	587.5	626.2	729.5	826.3	852.1
82.5°	71.0	77.5	122.7	174.3	251.8	342.1	419.6	432.5	535.8	613.3	632.6
85°	25.8	32.3	64.6	103.3	161.4	219.5	219.5	238.9	219.5	219.5	238.9
87.5°	0.0	0.0	6.5	12.9	12.9	19.4	25.8	25.8	32.3	38.7	45.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P534056

CATALOG NUMBER: GALN-SA9C-735-U-SL2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	16648.8	16648.8	16648.8	16648.8	16648.8	16648.8	16648.8	16648.8	16648.8	16648.8	16648.8
2.5°	16694.0	16661.7	16610.1	16422.9	16403.5	16345.4	16022.6	15971.0	16022.6	15867.7	15880.6
5°	16661.7	16758.6	16371.2	16184.0	15835.4	15583.7	15293.2	15144.7	14880.0	14712.2	14899.4
7.5°	16803.8	16765.0	16280.9	15874.2	15351.3	14712.2	14202.2	13911.7	13446.9	13317.8	13414.6
10°	16752.1	16545.5	15977.5	15441.6	14453.9	13892.3	13066.0	12265.5	11826.5	11600.6	11568.3
12.5°	16681.1	16623.0	15674.0	14750.9	13711.6	12530.2	11368.2	10612.9	9896.3	9586.5	9631.7
15°	16765.0	16274.4	15106.0	13937.5	12556.0	11006.7	9754.3	8779.5	8282.5	8082.3	8082.3
17.5°	16726.3	16106.6	14834.8	13027.3	11277.8	9444.5	8069.4	7482.0	7275.4	7275.4	7333.5
20°	16745.7	16216.3	14286.1	12117.0	9767.2	7953.2	6952.6	6739.6	6830.0	6862.2	6894.5
22.5°	16855.4	15854.8	13750.3	11116.4	8366.4	6804.1	6313.5	6320.0	6481.4	6655.7	6623.4
25°	16991.0	15712.8	13098.3	10122.3	7294.8	6242.5	6087.6	6068.2	6190.9	6281.2	6294.1
27.5°	16874.8	15467.5	12433.4	8882.8	6416.8	5868.1	5835.8	5848.7	5887.5	6068.2	6010.1
30°	17255.7	15538.5	11600.6	7843.5	5932.6	5745.4	5706.7	5687.3	5745.4	5797.1	5751.9
32.5°	17726.9	15286.7	10980.9	6842.9	5693.8	5655.1	5577.6	5551.8	5584.0	5532.4	5558.2
35°	17933.5	15241.5	10173.9	6126.3	5506.6	5474.3	5429.1	5422.7	5429.1	5383.9	5345.2
37.5°	18049.7	15454.6	9250.8	5797.1	5390.4	5422.7	5319.4	5306.5	5190.3	5216.1	5235.4
40°	18249.8	15125.3	8501.9	5480.8	5319.4	5254.8	5164.4	5145.1	5067.6	5022.4	5067.6
42.5°	17959.3	15028.5	7766.0	5345.2	5216.1	5145.1	5080.5	4970.8	4944.9	4906.2	4880.4
45°	17726.9	14473.3	7107.5	5177.3	5093.4	5054.7	4932.0	4815.8	4719.0	4757.7	4699.6
47.5°	17901.2	14279.6	6455.5	5035.3	4925.6	4880.4	4757.7	4667.4	4570.5	4525.3	4512.4
50°	18598.4	14641.2	5906.8	4932.0	4783.6	4757.7	4596.3	4493.1	4402.7	4370.4	4383.3
52.5°	20263.9	15628.9	5532.4	4719.0	4648.0	4531.8	4441.4	4312.3	4254.2	4150.9	4215.5
55°	22374.9	17236.3	5435.6	4518.9	4480.1	4376.9	4254.2	4157.4	4047.6	3963.7	3944.3
56°	23052.7	18004.5	5358.1	4441.4	4376.9	4318.8	4157.4	4099.3	3925.0	3905.6	3892.7
57.5°	23601.4	18682.3	5371.0	4292.9	4228.4	4176.7	4079.9	3937.9	3821.7	3750.7	3782.9
60°	22362.0	17488.1	5125.7	4067.0	4054.1	3957.2	3821.7	3757.1	3615.1	3531.2	3511.8
62.5°	16623.0	11871.7	4157.4	3776.5	3770.0	3666.7	3511.8	3440.8	3415.0	3298.8	3298.8
65°	9573.6	7443.2	3595.7	3537.6	3486.0	3382.7	3227.8	3169.7	3105.1	3066.4	3034.1
67.5°	4086.4	3860.4	3266.5	3260.0	3201.9	3072.8	2917.9	2827.5	2743.6	2666.1	2704.9
70°	2963.1	3008.3	2950.2	2917.9	2846.9	2685.5	2549.9	2440.2	2311.1	2259.4	2298.2
72.5°	2349.8	2446.6	2530.6	2537.0	2453.1	2265.9	2117.4	1968.9	1826.9	1755.9	1788.2
75°	1781.7	1846.3	1930.2	1949.6	1826.9	1697.8	1555.8	1400.9	1291.1	1207.2	1220.1
77.5°	1284.7	1271.7	1349.2	1336.3	1278.2	1187.8	1058.7	916.7	794.0	716.6	723.0
80°	878.0	897.3	942.5	936.1	865.0	806.9	710.1	593.9	503.5	439.0	426.1
82.5°	613.3	645.6	684.3	652.0	593.9	535.8	464.8	380.9	309.9	258.2	245.3
85°	219.5	251.8	290.5	309.9	329.2	316.3	264.7	213.0	154.9	129.1	122.7
87.5°	45.2	51.6	58.1	58.1	58.1	51.6	45.2	45.2	38.7	19.4	19.4
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)