

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: P456290

Luminaire Tested: **GALN-SA7C-740-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40280 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

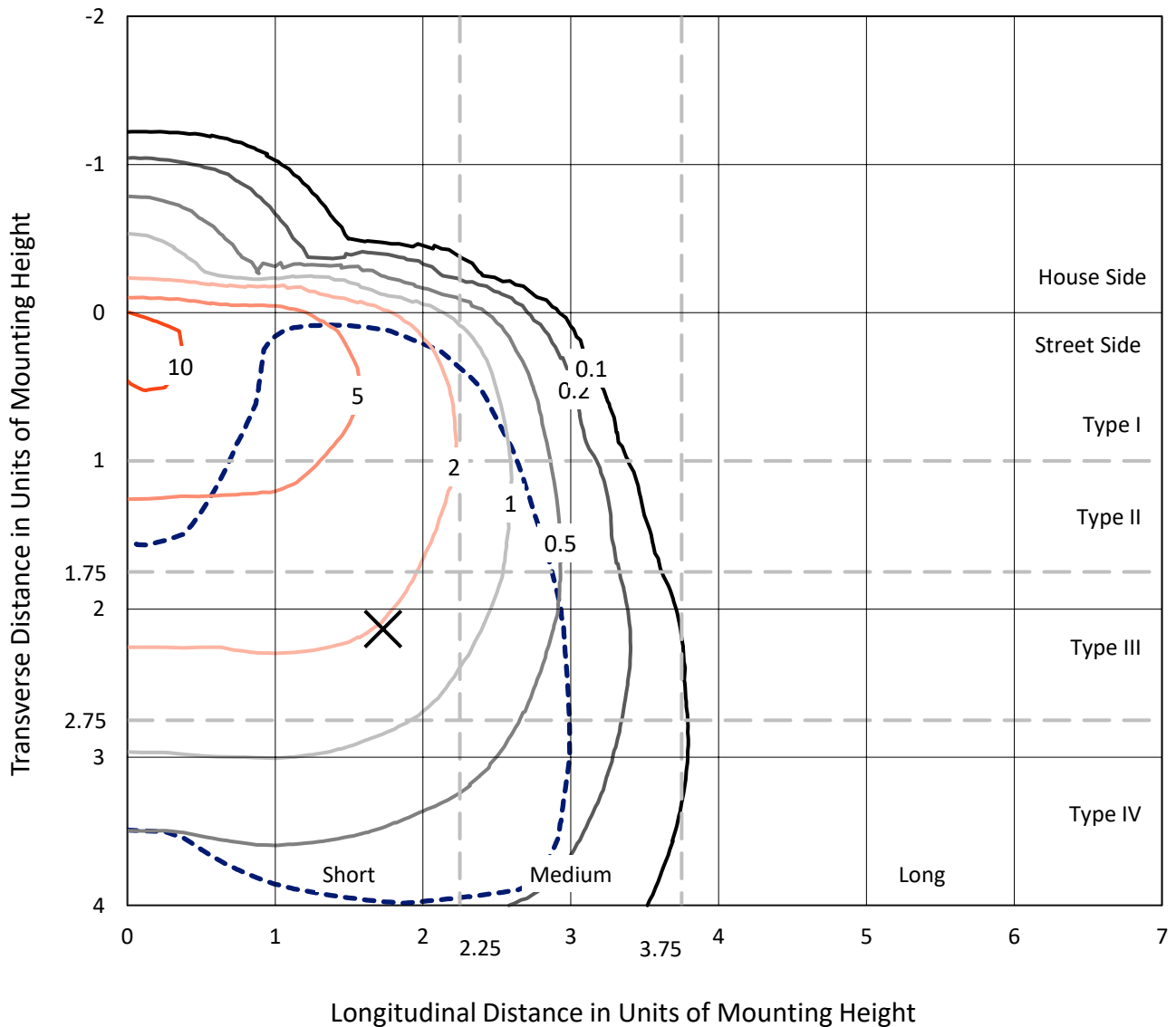
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456290
 CATALOG NUMBER: GALN-SA7C-740-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

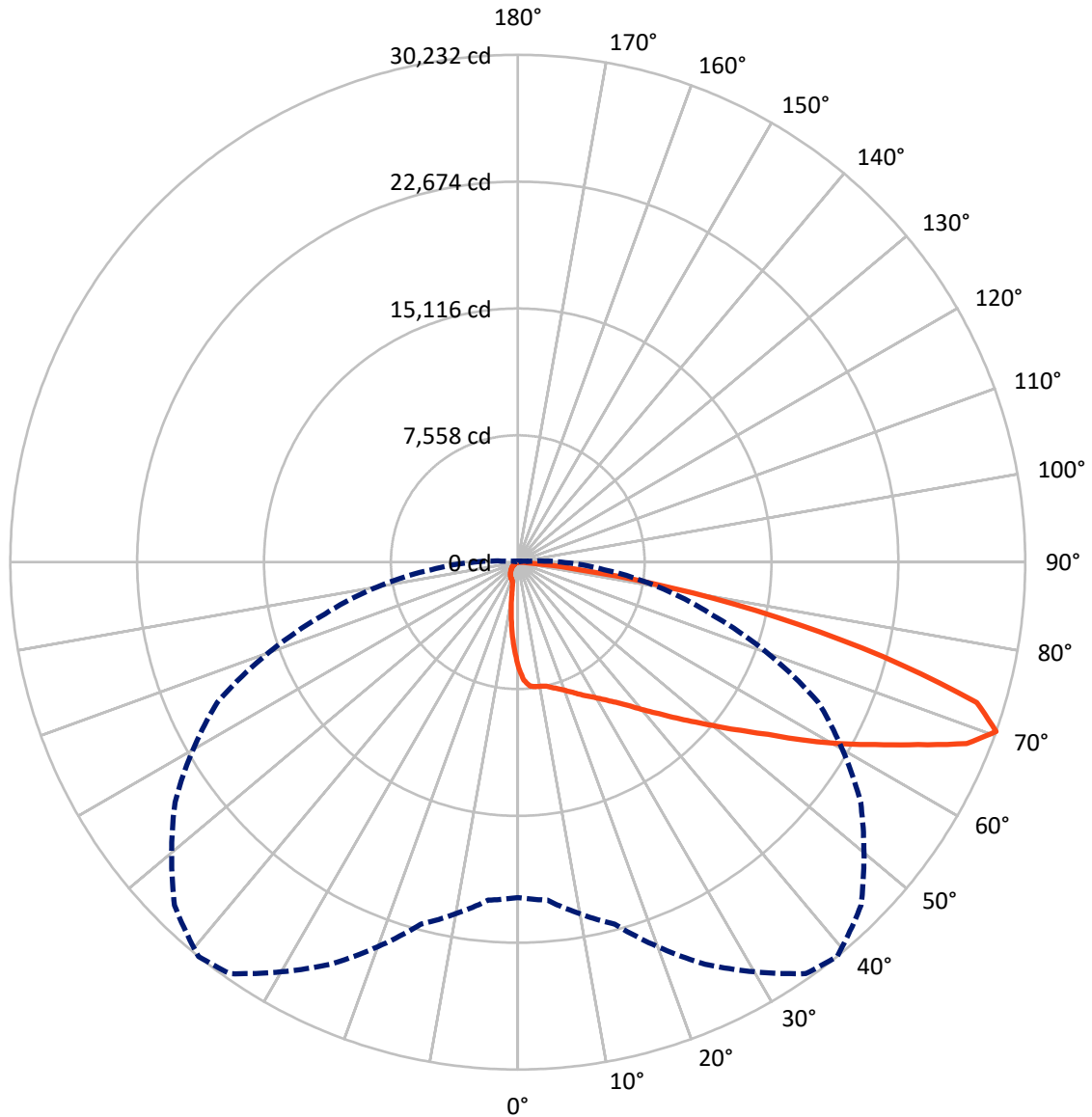
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type IV - Short - N/A

REPORT NUMBER: P456290
CATALOG NUMBER: GALN-SA7C-740-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P456290
 CATALOG NUMBER: GALN-SA7C-740-U-SL4-HSS

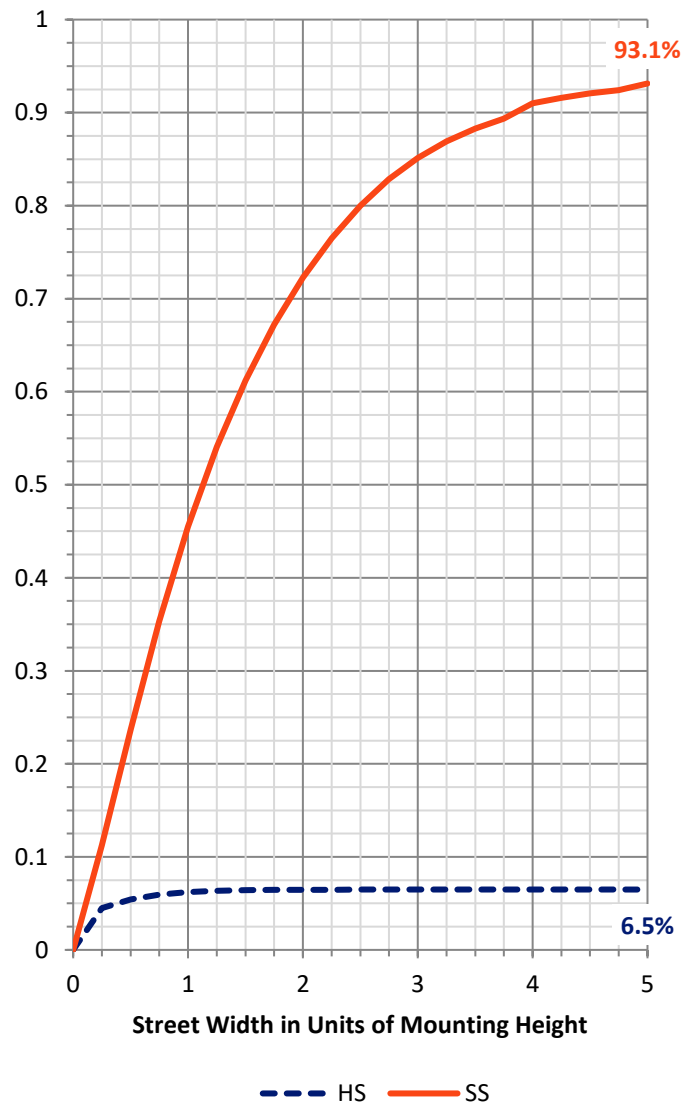
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2626.4	0.0	2626.4
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	37653.6	0.0	37653.6
	% Fixture	93.5	0.0	93.5
Total	Lumens	40280.0	0.0	40280.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.1	1.3
10°-20°	1393.1	3.5
20°-30°	2333.8	5.8
30°-40°	3619.5	9.0
40°-50°	5735.8	14.2
50°-60°	8407.8	20.9
60°-70°	10776.8	26.8
70°-80°	6771.8	16.8
80°-90°	705.5	1.8
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°	40280.0	100.0
0°-180°	40280.0	100.0



REPORT NUMBER: P456290

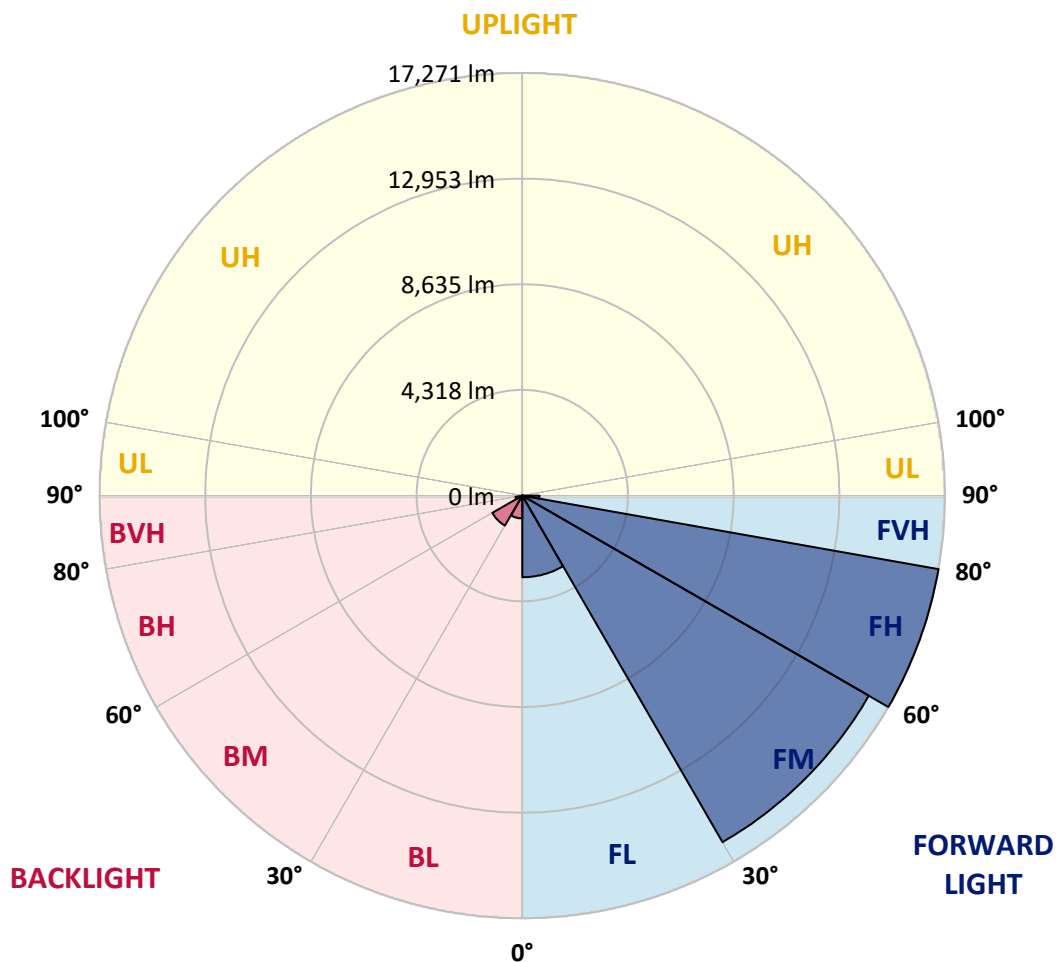
CATALOG NUMBER: GALN-SA7C-740-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3333.0	8.3			
FM (30°-60°)	16349.6	40.6			
FH (60°-80°)	17270.8	42.9			G5
FVH (80°-90°)	700.3	1.7			G4/750
BL (0°-30°)	930.0	2.3	B2/1000		
BM (30°-60°)	1413.5	3.5	B2/2500		
BH (60°-80°)	277.8	0.7	B1/500		G1/500
BVH (80°-90°)	5.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





REPORT NUMBER: P456290

CATALOG NUMBER: GALN-SA7C-740-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1
2.5°	7262.2	7237.8	7205.4	7167.5	7059.2	7040.2	6975.3	6837.2	6672.1	6536.8	6350.0
5°	7606.0	7619.5	7595.1	7527.5	7449.0	7402.9	7321.7	7107.9	6894.1	6620.7	6314.8
7.5°	7684.4	7711.5	7681.7	7616.8	7541.0	7492.3	7427.3	7243.2	6994.2	6683.0	6263.4
10°	7676.3	7708.8	7689.9	7630.3	7568.1	7522.0	7451.7	7305.5	7105.2	6777.7	6279.6
12.5°	7662.8	7706.1	7703.4	7673.6	7622.2	7587.0	7543.7	7413.8	7227.0	6915.7	6369.0
15°	7624.9	7679.0	7727.8	7752.1	7754.8	7754.8	7700.7	7562.6	7384.0	7097.1	6485.4
17.5°	7641.1	7703.4	7825.2	7895.6	7944.3	7938.9	7882.0	7733.2	7535.6	7283.9	6607.2
20°	7741.3	7825.2	7995.7	8136.5	8185.2	8169.0	8093.2	7919.9	7695.3	7443.5	6726.3
22.5°	7987.6	8063.4	8277.2	8442.3	8477.5	8434.2	8325.9	8090.5	7887.5	7616.8	6869.7
25°	8355.7	8445.0	8642.6	8767.1	8767.1	8742.8	8591.2	8315.1	8104.0	7857.7	7056.5
27.5°	8802.3	8878.1	9073.0	9184.0	9119.0	9048.6	8897.1	8564.1	8361.1	8160.8	7281.1
30°	9254.4	9303.1	9508.8	9557.5	9489.8	9400.5	9238.1	8905.2	8726.5	8572.3	7606.0
32.5°	9682.0	9787.6	9958.1	9947.3	9855.3	9812.0	9663.1	9308.5	9208.3	9192.1	8060.7
35°	10109.7	10190.9	10342.5	10380.4	10299.2	10291.0	10182.8	9920.2	9922.9	10028.5	8769.9
37.5°	10477.8	10550.9	10729.5	10813.4	10829.7	10870.3	10827.0	10653.7	10900.1	11189.7	9709.1
40°	10786.4	10889.2	11116.6	11262.8	11430.6	11579.5	11587.6	11625.5	12120.8	12618.8	10935.2
42.5°	11027.3	11170.7	11501.0	11771.6	12156.0	12345.5	12497.0	12705.5	13539.1	14283.5	12380.7
45°	11341.3	11506.4	11917.8	12342.8	12943.7	13254.9	13466.1	14023.6	15206.5	16221.5	13863.9
47.5°	11861.0	11947.6	12367.1	12987.0	13777.3	14221.2	14632.7	15477.2	16995.7	17905.1	15098.2
50°	12529.5	12586.4	12903.1	13763.8	14786.9	15371.6	16121.4	17114.7	18852.5	19301.8	15796.6
52.5°	13268.5	13287.4	13525.6	14619.1	15918.4	16654.6	17493.7	18719.8	20365.5	20297.9	16259.4
55°	14126.5	14099.4	14302.4	15547.5	17258.2	18100.0	19077.1	20362.8	21678.3	21004.3	16524.7
57.5°	15109.0	15036.0	15233.6	16779.1	18974.3	19981.2	20974.6	21781.2	22696.1	21597.1	16651.9
60°	16137.6	15991.4	16226.9	18162.3	20996.2	21951.7	22777.3	22993.8	23767.9	22068.1	16432.6
62.5°	16957.8	16960.5	17399.0	19634.7	23075.0	23911.4	24349.9	24544.8	24690.9	21965.2	15279.6
65°	18238.0	18281.4	18982.4	21678.3	25481.3	26206.7	26507.2	25873.8	24731.5	20687.7	13547.3
67.5°	19558.9	19697.0	20980.0	24493.3	28261.1	28845.8	28458.7	26130.9	23627.2	17772.5	10272.1
70°	19989.3	20216.7	22330.6	26431.4	29928.5	30231.6	28921.6	24931.8	19751.1	11882.6	5169.9
72.5°	18316.5	18684.7	21553.8	25724.9	28864.7	28602.2	25876.5	20909.6	12556.6	4512.1	1578.0
75°	12916.6	13079.0	17913.2	21340.0	23215.8	22471.4	19683.4	13479.6	5164.5	1266.8	541.3
77.5°	6669.4	6590.9	10653.7	14159.0	16557.2	15785.7	12889.5	6978.0	1957.0	527.8	335.6
80°	3448.4	3505.2	4609.6	7419.2	10107.0	9300.4	6872.4	3234.6	1042.1	292.3	257.1
82.5°	1932.6	1813.5	2649.9	3240.0	4726.0	3705.5	2636.4	2289.9	454.7	175.9	243.6
85°	351.9	368.1	1453.5	1751.3	1640.3	1042.1	849.9	1529.3	132.6	97.4	170.5
87.5°	5.4	5.4	281.5	503.5	319.4	146.2	268.0	219.2	27.1	37.9	29.8
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: P456290
 CATALOG NUMBER: GALN-SA7C-740-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1
2.5°	6255.3	6152.4	5960.3	5770.8	5529.9	5332.3	5199.7	5061.6	4920.9	4931.7	4964.2
5°	6147.0	5968.4	5589.4	5188.8	4804.5	4458.0	4117.0	3811.1	3686.6	3572.9	3578.3
7.5°	6038.7	5787.0	5232.1	4604.2	4022.2	3432.2	3004.5	2652.6	2465.8	2325.1	2284.5
10°	5990.0	5657.1	4904.6	4041.2	3215.6	2571.4	2021.9	1735.0	1513.1	1442.7	1461.6
12.5°	6011.7	5592.1	4609.6	3532.3	2549.8	1791.9	1407.5	1261.3	1212.6	1204.5	1199.1
15°	6052.3	5546.1	4320.0	2969.3	1873.1	1331.7	1182.8	1155.8	1150.4	1145.0	1147.7
17.5°	6106.4	5505.5	4011.4	2441.5	1437.3	1163.9	1120.6	1107.1	1104.4	1104.4	1104.4
20°	6160.6	5459.5	3667.6	1970.5	1199.1	1098.9	1071.9	1063.8	1061.0	1061.0	1058.3
22.5°	6222.8	5418.9	3318.5	1548.3	1104.4	1052.9	1028.6	1023.1	1020.4	1017.7	1017.7
25°	6312.1	5367.5	2947.6	1266.8	1044.8	1009.6	985.3	979.8	977.1	966.3	969.0
27.5°	6431.2	5329.6	2566.0	1093.5	990.7	955.5	939.2	931.1	925.7	917.6	920.3
30°	6593.6	5297.1	2160.0	998.8	928.4	898.6	882.4	877.0	871.6	863.5	863.5
32.5°	6875.1	5310.6	1732.3	923.0	871.6	836.4	820.1	814.7	809.3	801.2	801.2
35°	7297.4	5389.1	1385.9	858.0	803.9	768.7	752.5	752.5	744.4	733.5	730.8
37.5°	7987.6	5589.4	1112.5	795.8	738.9	706.5	687.5	682.1	674.0	657.7	655.0
40°	8802.3	5900.7	936.5	733.5	679.4	646.9	630.7	614.4	592.8	576.5	573.8
42.5°	9825.5	6220.1	812.0	671.3	622.6	592.8	573.8	546.8	514.3	492.6	489.9
45°	10891.9	6512.4	728.1	614.4	568.4	544.1	522.4	479.1	438.5	411.4	408.7
47.5°	11687.7	6566.6	660.4	560.3	522.4	498.0	468.3	414.1	360.0	335.6	327.5
50°	12064.0	6304.0	590.1	506.2	476.4	449.3	411.4	349.2	289.6	259.8	254.4
52.5°	12196.6	5849.3	533.2	457.4	430.4	397.9	351.9	281.5	227.4	197.6	194.9
55°	12142.5	5275.4	481.8	411.4	376.2	338.3	292.3	224.7	167.8	143.5	138.0
57.5°	11858.2	4544.6	430.4	365.4	322.1	284.2	232.8	167.8	113.7	92.0	89.3
60°	11092.2	3548.5	378.9	314.0	273.4	232.8	184.1	119.1	70.4	51.4	51.4
62.5°	9798.4	2633.7	330.2	262.6	230.1	186.8	129.9	75.8	37.9	27.1	24.4
65°	8187.9	1943.4	276.1	222.0	192.2	146.2	92.0	46.0	18.9	8.1	5.4
67.5°	5713.9	1199.1	230.1	181.4	157.0	105.6	56.8	18.9	8.1	0.0	0.0
70°	2595.8	571.1	175.9	138.0	119.1	75.8	29.8	10.8	5.4	0.0	0.0
72.5°	806.6	300.4	124.5	100.1	81.2	48.7	16.2	8.1	5.4	0.0	0.0
75°	373.5	192.2	78.5	54.1	46.0	24.4	10.8	5.4	2.7	0.0	0.0
77.5°	278.8	148.9	46.0	29.8	24.4	16.2	8.1	5.4	2.7	0.0	0.0
80°	243.6	75.8	27.1	18.9	13.5	10.8	5.4	2.7	0.0	0.0	0.0
82.5°	219.2	37.9	16.2	10.8	8.1	5.4	2.7	2.7	0.0	0.0	0.0
85°	119.1	21.7	10.8	8.1	5.4	2.7	2.7	0.0	0.0	0.0	0.0
87.5°	21.7	10.8	8.1	5.4	5.4	2.7	2.7	2.7	0.0	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)