

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: P534275

Luminaire Tested: **GALN-SA9D-730-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-730-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38140 lumens
Efficiency: N/A
Efficacy: 69.1 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

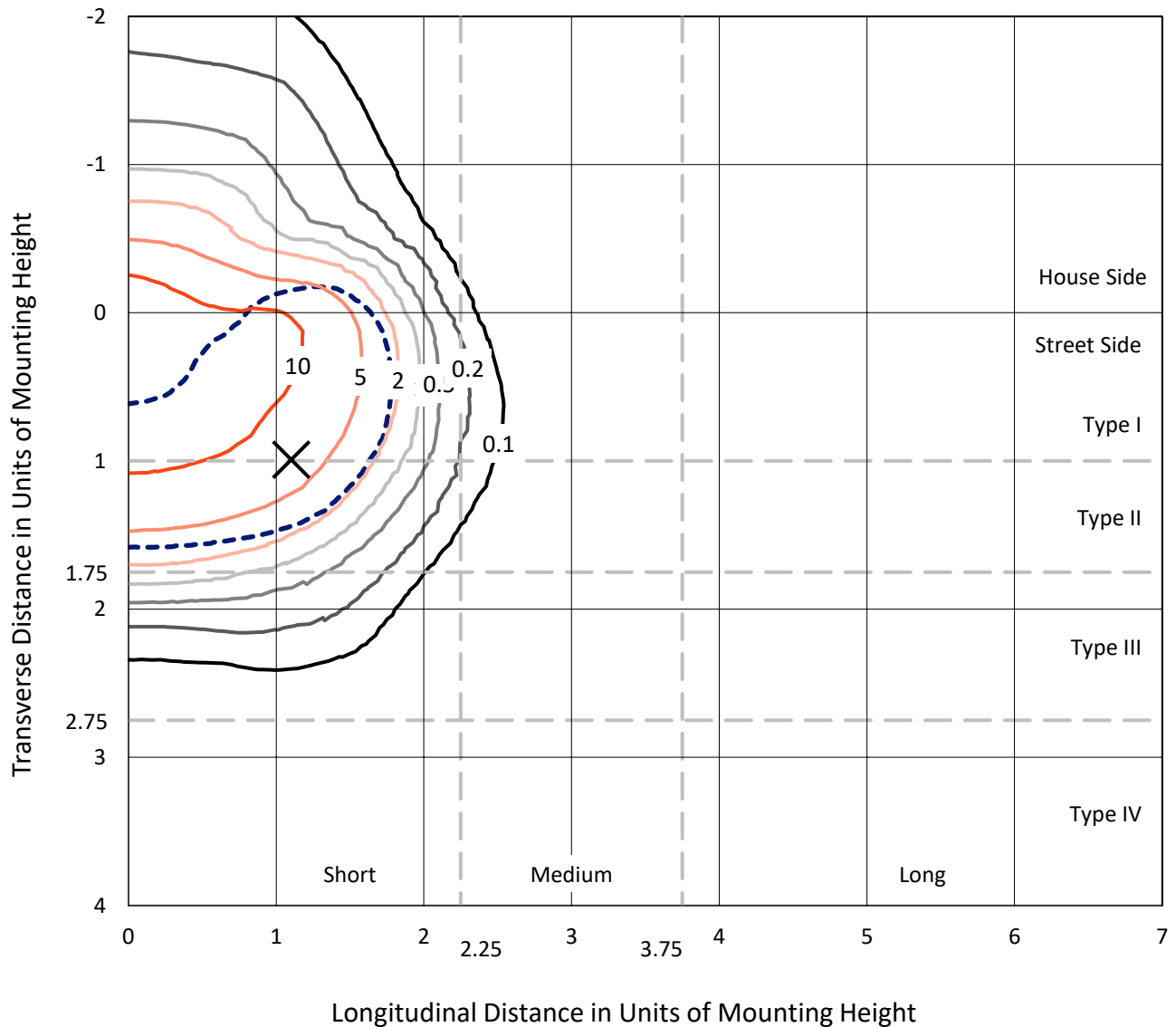
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

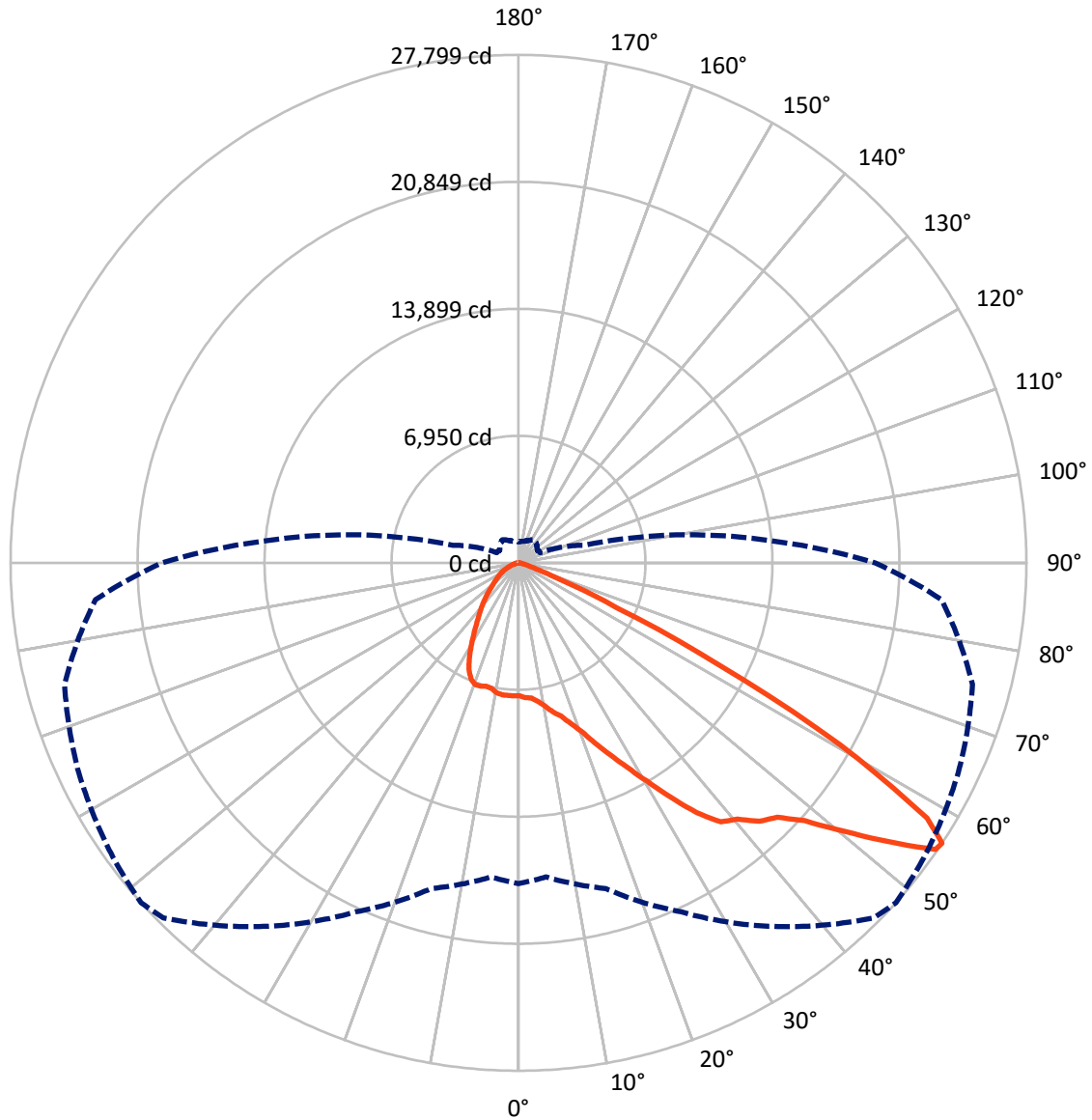
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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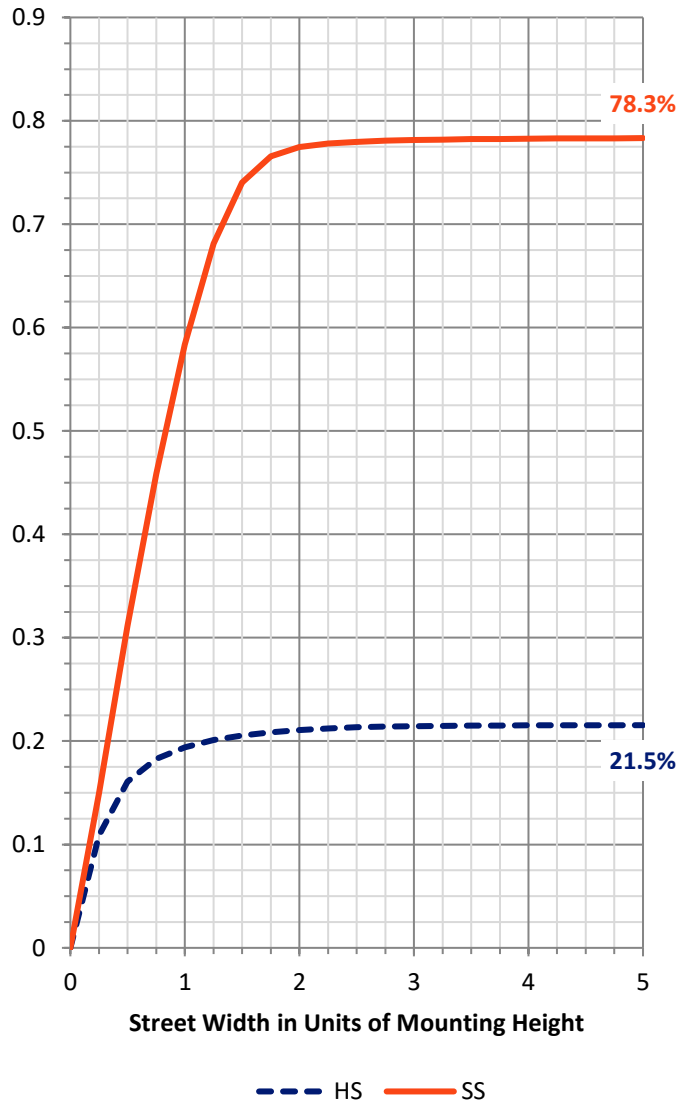
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8294.7	0.0	8294.7
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	29845.3	0.0	29845.3
	% Fixture	78.3	0.0	78.3
Total	Lumens	38140.0	0.0	38140.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	709.6	1.9
10°-20°	2267.8	5.9
20°-30°	4113.3	10.8
30°-40°	6461.2	16.9
40°-50°	9425.8	24.7
50°-60°	11356.3	29.8
60°-70°	3325.0	8.7
70°-80°	421.8	1.1
80°-90°	59.1	0.2
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°	38140.0	100.0
0°-180°	38140.0	100.0

Coefficient of Utilization

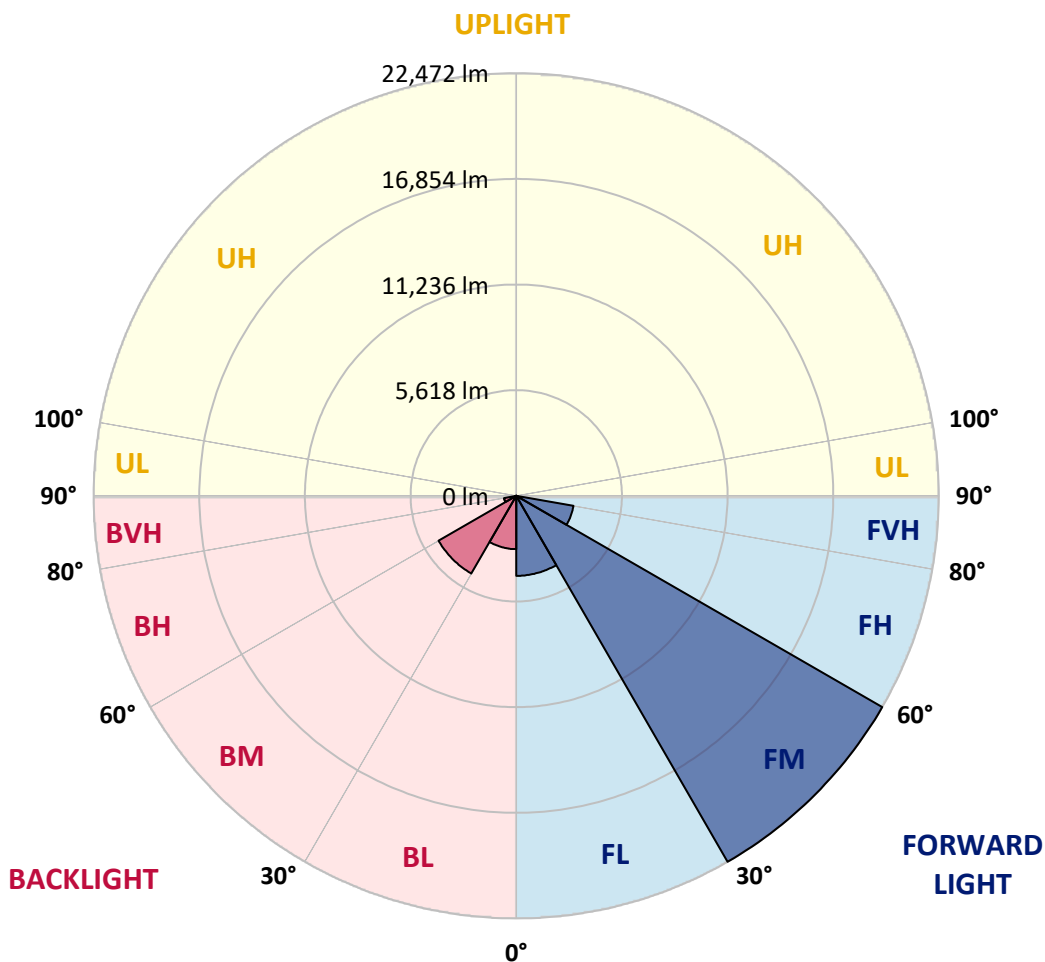


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4255.7	11.2			
FM (30°-60°)	22472.2	58.9			
FH (60°-80°)	3087.7	8.1			G2/5000
FVH (80°-90°)	29.7	0.1			G1/100
BL (0°-30°)	2835.1	7.4	B4/5000		
BM (30°-60°)	4771.1	12.5	B3/5000		
BH (60°-80°)	659.1	1.7	B2/1000		G2/1000
BVH (80°-90°)	29.4	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°	48°	55°	65°	75°	85°
0°	7284.8	7284.8	7284.8	7284.8	7284.8	7284.8	7284.8	7284.8	7284.8	7284.8	7284.8
2.5°	7416.7	7382.0	7382.0	7326.4	7388.9	7361.1	7382.0	7312.5	7382.0	7277.8	7361.1
5°	7451.4	7458.4	7430.6	7465.3	7465.3	7507.0	7437.5	7500.0	7534.8	7458.4	7423.6
7.5°	7632.0	7645.9	7638.9	7611.1	7666.7	7659.8	7652.8	7604.2	7618.1	7590.3	7548.6
10°	7986.1	7979.2	8013.9	7944.5	7902.8	7951.4	7965.3	7888.9	7833.4	7812.5	7680.6
12.5°	8500.0	8416.7	8368.1	8298.7	8319.5	8250.0	8375.0	8243.1	8215.3	8090.3	7958.4
15°	8916.7	8902.8	8909.8	8798.7	8673.7	8701.4	8701.4	8632.0	8590.3	8437.5	8250.0
17.5°	9770.9	9479.2	9541.7	9402.8	9298.7	9291.7	9229.2	9243.1	9132.0	8812.5	8527.8
20°	10437.5	10312.5	10215.3	9979.2	9819.5	9868.1	9840.3	9770.9	9736.2	9319.5	8916.7
22.5°	11034.8	11076.4	10916.7	10854.2	10632.0	10652.8	10708.4	10645.9	10382.0	9951.4	9354.2
25°	11875.1	11826.4	11611.2	11534.8	11326.4	11402.8	11618.1	11569.5	11402.8	10625.0	9694.5
27.5°	12868.1	12701.4	12743.1	12395.9	12194.5	12409.8	12666.7	12909.8	12437.6	11416.7	10097.3
30°	13569.5	13395.9	13382.0	13368.1	13319.5	13569.5	13868.1	14090.3	13708.4	12208.4	10763.9
32.5°	13916.7	13958.4	14076.5	14034.8	14458.4	14972.3	15284.8	15604.2	15125.1	13500.1	11645.9
35°	14840.3	14576.5	14840.3	14868.1	15305.6	16395.9	16791.7	17555.6	17437.6	15326.5	12722.3
37.5°	15382.0	15361.2	15395.9	15659.8	16083.4	17430.6	17993.1	18583.4	18361.2	16423.7	14062.6
40°	16277.9	16333.4	16326.5	16527.9	16993.1	18208.4	18437.6	18916.8	18937.6	17944.5	16034.8
42.5°	17715.4	17493.1	17347.3	17555.6	18208.4	18882.0	19340.4	19243.1	19930.6	19791.8	18569.5
45°	19007.0	19139.0	18923.7	19270.9	19507.0	19868.1	19854.3	20062.6	20937.6	21597.3	20479.3
47.5°	20215.4	20298.7	20402.9	20639.0	21152.9	21208.4	21090.4	21000.1	22208.4	22889.0	21958.4
50°	20937.6	21014.0	21500.1	21923.7	22882.1	23007.1	23076.5	22847.3	23666.8	23743.2	23354.3
52.5°	20743.2	20826.5	21507.0	22902.9	24430.7	25576.5	25368.2	24979.3	24930.7	25229.3	24645.9
55°	19020.9	18944.5	19882.0	22055.7	24916.8	27666.8	27694.6	27284.9	26500.1	26298.7	24451.5
56°	17555.6	17257.0	18451.5	21076.5	24291.8	27486.2	27798.7	27361.2	26625.1	25722.3	23250.1
57.5°	14382.0	14666.7	15854.2	18027.9	22132.0	26187.6	26368.2	26264.0	25708.5	24194.6	20458.4
60°	7930.6	8430.6	9479.2	12138.9	15757.0	20097.3	20243.2	21090.4	21194.5	18527.9	14076.5
62.5°	3368.1	3312.5	4402.8	6361.1	8972.3	12132.0	12402.8	13270.9	13430.6	10680.6	7062.5
65°	1368.1	1444.5	1993.1	3201.4	4743.1	5527.8	5909.8	6194.5	6722.3	4409.7	2604.2
67.5°	902.8	895.8	1173.6	1826.4	2555.6	2465.3	2465.3	2604.2	2409.7	1798.6	1125.0
70°	645.8	666.7	840.3	1263.9	1590.3	1180.6	1131.9	1083.3	1229.2	1187.5	909.7
72.5°	423.6	451.4	562.5	756.9	826.4	645.8	645.8	777.8	1013.9	958.3	743.1
75°	277.8	284.7	347.2	437.5	409.7	333.3	368.1	520.8	736.1	708.3	527.8
77.5°	187.5	194.4	236.1	284.7	229.2	187.5	201.4	263.9	361.1	361.1	277.8
80°	69.4	76.4	97.2	90.3	104.2	131.9	145.8	180.6	215.3	215.3	187.5
82.5°	0.0	6.9	20.8	48.6	76.4	104.2	118.1	138.9	159.7	180.6	173.6
85°	0.0	6.9	20.8	34.7	55.6	62.5	69.4	48.6	41.7	41.7	34.7
87.5°	0.0	0.0	6.9	6.9	6.9	6.9	6.9	6.9	13.9	6.9	6.9
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°	7284.8	7284.8	7284.8	7284.8	7284.8	7284.8	7284.8	7284.8	7284.8	7284.8	7284.8
2.5°	7284.8	7277.8	7277.8	7257.0	7298.6	7277.8	7291.7	7284.8	7194.5	7263.9	7215.3
5°	7361.1	7409.8	7333.4	7319.5	7263.9	7284.8	7284.8	7215.3	7277.8	7270.9	7257.0
7.5°	7555.6	7472.3	7388.9	7305.6	7291.7	7270.9	7194.5	7166.7	7215.3	7159.8	7243.1
10°	7638.9	7652.8	7527.8	7416.7	7312.5	7166.7	7062.5	7000.0	6923.6	7007.0	7055.6
12.5°	8020.9	7882.0	7666.7	7493.1	7138.9	6993.1	6888.9	6861.1	6993.1	7020.9	6972.3
15°	8152.8	8132.0	7854.2	7465.3	7097.3	6923.6	6944.5	6888.9	6902.8	6833.4	6847.3
17.5°	8423.7	8187.5	7861.1	7375.0	7090.3	7048.6	6923.6	6701.4	6576.4	6520.9	6569.5
20°	8722.3	8493.1	8020.9	7409.8	7152.8	7041.7	6632.0	6361.1	6104.2	5965.3	5972.3
22.5°	8986.2	8701.4	7951.4	7423.6	7208.4	6750.0	6257.0	5722.2	5402.8	5187.5	5194.5
25°	9305.6	8902.8	7979.2	7451.4	7062.5	6284.8	5576.4	5055.6	4673.6	4527.8	4576.4
27.5°	9486.2	9027.8	8132.0	7513.9	6680.6	5625.0	4861.1	4375.0	4152.8	4083.4	4076.4
30°	10027.8	9305.6	8319.5	7388.9	6041.7	4916.7	4208.4	3909.7	3694.5	3632.0	3645.9
32.5°	10833.4	9812.5	8562.5	7062.5	5388.9	4284.7	3784.7	3562.5	3361.1	3243.1	3229.2
35°	11507.0	10680.6	8819.5	6555.6	4632.0	3798.6	3486.1	3208.3	2902.8	2770.8	2736.1
37.5°	12791.7	11659.8	8763.9	5791.7	3909.7	3437.5	3166.7	2826.4	2562.5	2382.0	2361.1
40°	14500.1	12805.6	8493.1	4861.1	3375.0	3118.1	2826.4	2500.0	2173.6	2020.8	2007.0
42.5°	16576.5	14208.4	8000.0	3916.7	2840.3	2798.6	2534.7	2159.7	1868.1	1757.0	1763.9
45°	18264.0	15409.8	7500.0	3145.8	2444.5	2486.1	2257.0	1902.8	1701.4	1611.1	1611.1
47.5°	19764.0	16222.3	6958.4	2597.2	2076.4	2173.6	1972.2	1763.9	1590.3	1520.8	1507.0
50°	21208.4	17048.7	6416.7	2104.2	1770.8	1868.1	1847.2	1680.6	1541.7	1458.3	1465.3
52.5°	22111.2	17180.6	5729.2	1722.2	1548.6	1659.7	1729.2	1576.4	1423.6	1375.0	1361.1
55°	21007.0	15479.2	4444.5	1416.7	1312.5	1458.3	1590.3	1416.7	1298.6	1215.3	1208.3
56°	19520.9	13840.3	3715.3	1305.6	1243.1	1402.8	1541.7	1354.2	1222.2	1173.6	1138.9
57.5°	16527.9	11326.4	2743.1	1159.7	1152.8	1305.6	1465.3	1291.7	1138.9	1097.2	1097.2
60°	10305.6	6375.0	1659.7	972.2	1000.0	1159.7	1319.5	1152.8	1013.9	1013.9	1034.7
62.5°	4694.5	2652.8	1006.9	826.4	861.1	1000.0	1173.6	1041.7	965.3	1041.7	1055.6
65°	1597.2	1145.8	729.2	659.7	680.6	826.4	1006.9	1055.6	1048.6	1097.2	1125.0
67.5°	895.8	736.1	611.1	548.6	534.7	611.1	826.4	1055.6	1013.9	993.1	1006.9
70°	756.9	625.0	541.7	486.1	465.3	493.1	638.9	798.6	715.3	694.4	680.6
72.5°	611.1	520.8	472.2	437.5	375.0	319.4	291.7	305.6	340.3	361.1	395.8
75°	430.6	395.8	395.8	354.2	270.8	201.4	159.7	131.9	90.3	62.5	69.4
77.5°	243.1	243.1	250.0	215.3	173.6	131.9	97.2	69.4	34.7	13.9	6.9
80°	166.7	180.6	194.4	173.6	145.8	118.1	83.3	48.6	20.8	0.0	0.0
82.5°	166.7	187.5	201.4	173.6	145.8	111.1	83.3	48.6	20.8	6.9	0.0
85°	34.7	41.7	48.6	55.6	83.3	83.3	62.5	41.7	20.8	6.9	0.0
87.5°	6.9	6.9	6.9	6.9	6.9	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)