

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: P534041

Luminaire Tested: **GALN-SA9C-730-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534041
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-SA9C-730-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA 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: 34662 lumens
Efficiency: N/A
Efficacy: 72.1 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

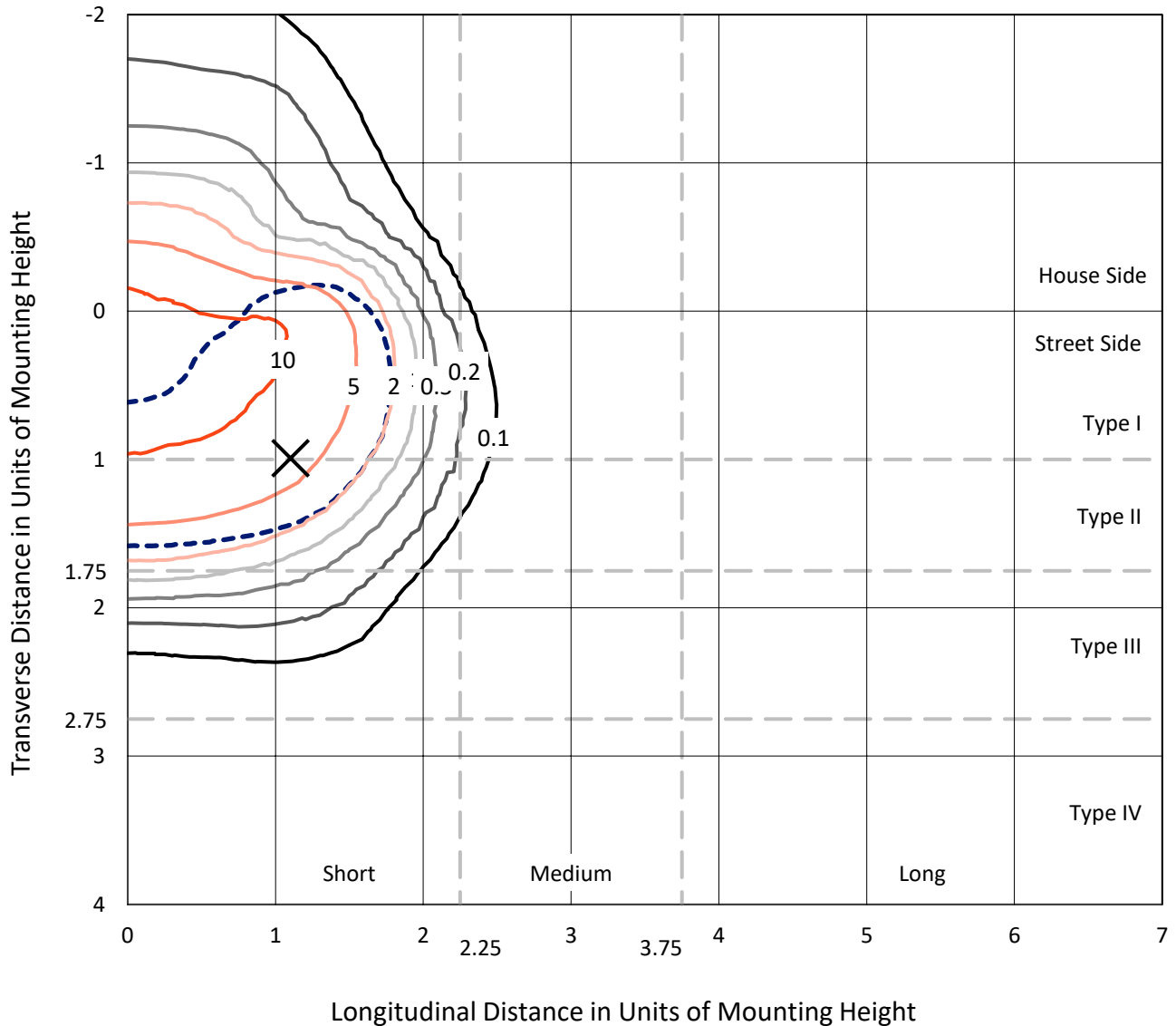
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

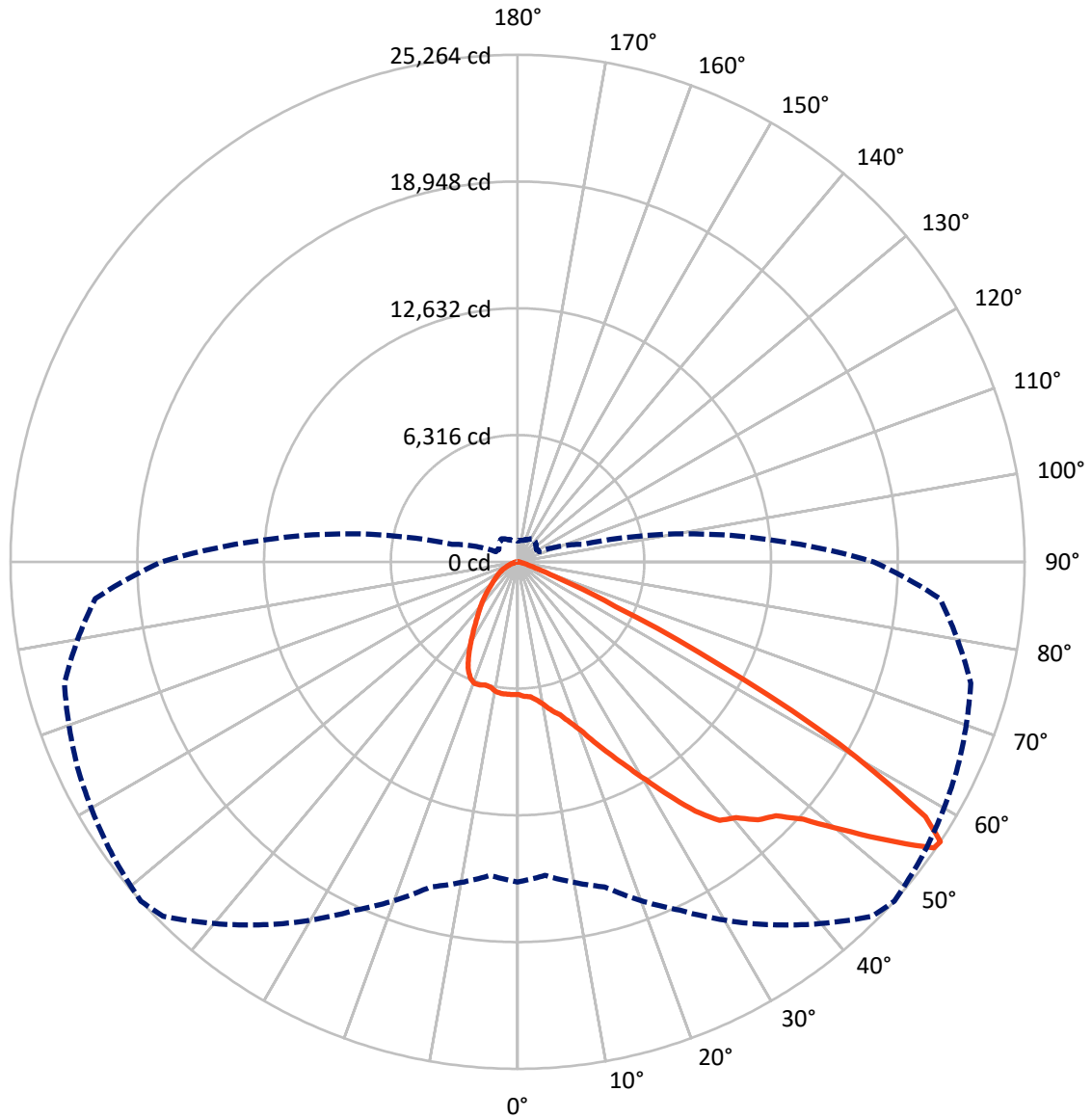
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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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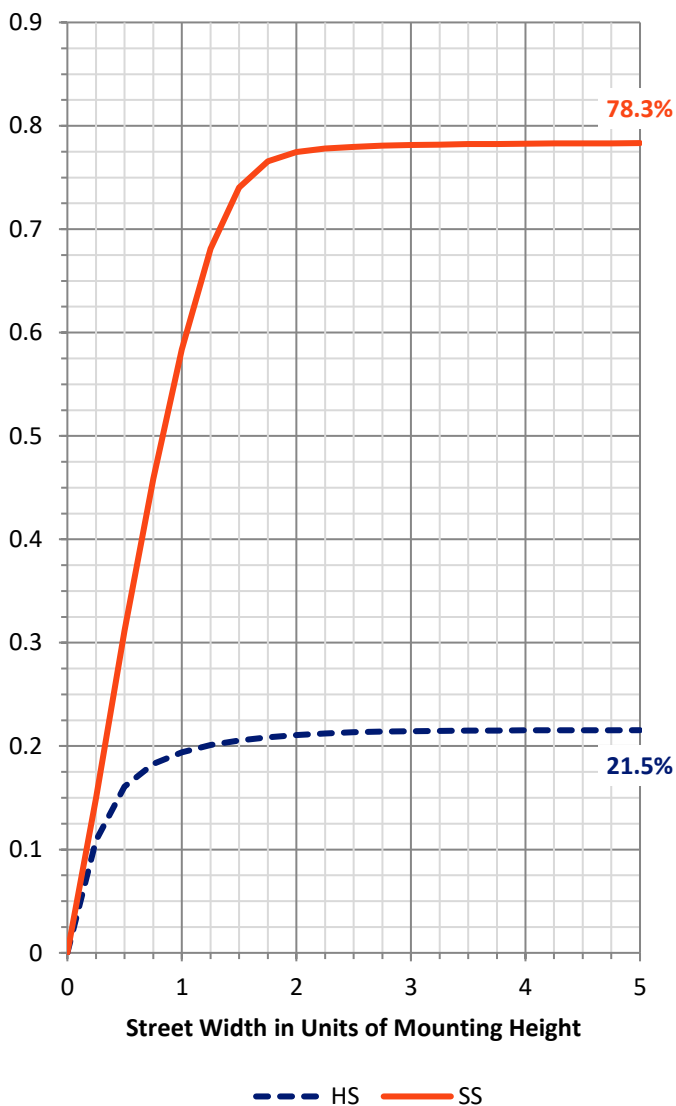
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7538.3	0.0	7538.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	27123.7	0.0	27123.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	34662.0	0.0	34662.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.9	1.9
10°-20°	2061.0	5.9
20°-30°	3738.2	10.8
30°-40°	5872.0	16.9
40°-50°	8566.2	24.7
50°-60°	10320.7	29.8
60°-70°	3021.8	8.7
70°-80°	383.3	1.1
80°-90°	53.8	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°	34662.0	100.0
0°-180°	34662.0	100.0

Coefficient of Utilization



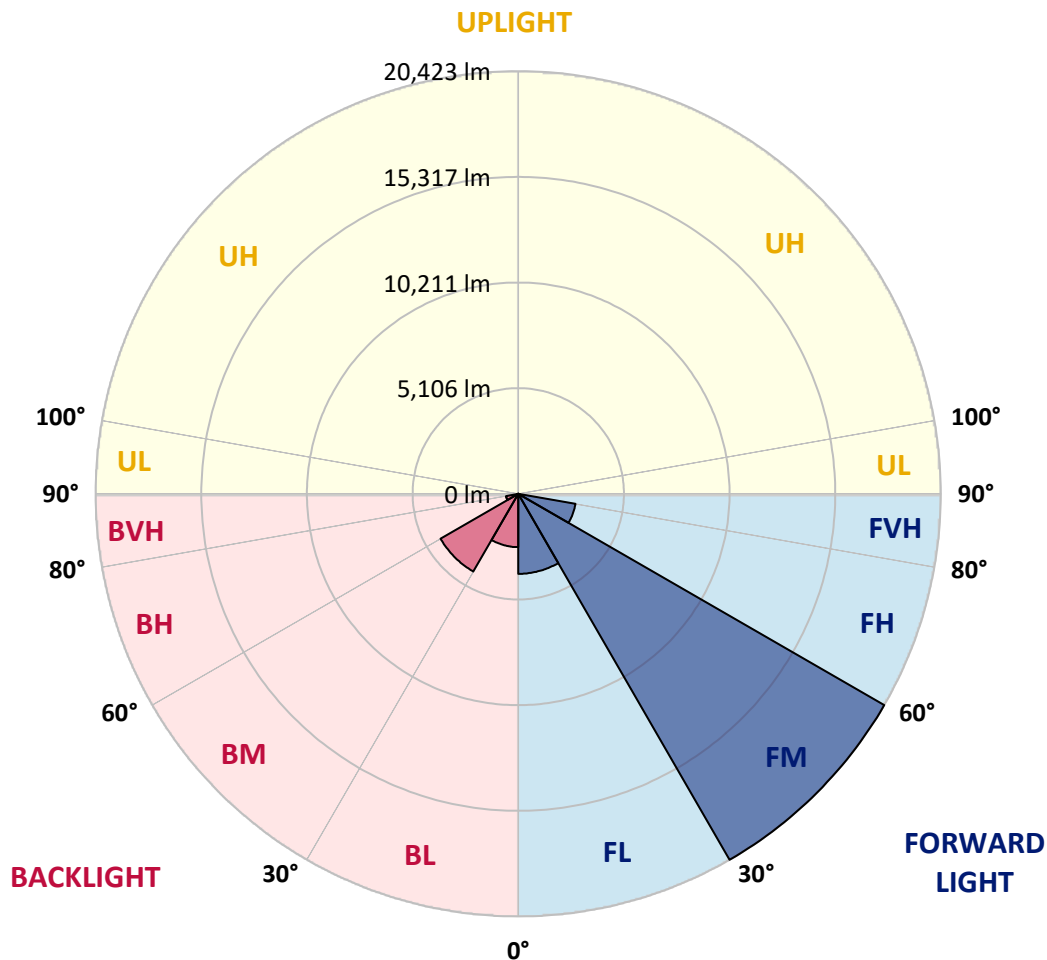
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3867.6	11.2			
FM (30°-60°)	20422.9	58.9			
FH (60°-80°)	2806.1	8.1			G2/5000
FVH (80°-90°)	27.0	0.1			G1/100
BL (0°-30°)	2576.6	7.4	B4/5000		
BM (30°-60°)	4336.0	12.5	B3/5000		
BH (60°-80°)	599.0	1.7	B2/1000		G2/1000
BVH (80°-90°)	26.8	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°	6620.5	6620.5	6620.5	6620.5	6620.5	6620.5	6620.5	6620.5	6620.5	6620.5	6620.5
2.5°	6740.4	6708.8	6708.8	6658.3	6715.1	6689.9	6708.8	6645.7	6708.8	6614.1	6689.9
5°	6771.9	6778.2	6753.0	6784.5	6784.5	6822.4	6759.3	6816.1	6847.7	6778.2	6746.7
7.5°	6936.0	6948.6	6942.3	6917.1	6967.6	6961.3	6955.0	6910.8	6923.4	6898.2	6860.3
10°	7257.9	7251.6	7283.1	7220.0	7182.2	7226.3	7239.0	7169.5	7119.0	7100.1	6980.2
12.5°	7724.9	7649.2	7605.0	7541.9	7560.8	7497.7	7611.3	7491.4	7466.2	7352.6	7232.6
15°	8103.6	8091.0	8097.3	7996.3	7882.7	7907.9	7907.9	7844.8	7807.0	7668.1	7497.7
17.5°	8879.9	8614.8	8671.6	8545.4	8450.7	8444.4	8387.6	8400.2	8299.2	8008.9	7750.2
20°	9485.7	9372.1	9283.8	9069.2	8924.0	8968.2	8943.0	8879.9	8848.3	8469.6	8103.6
22.5°	10028.5	10066.4	9921.2	9864.4	9662.5	9681.4	9731.9	9675.1	9435.3	9044.0	8501.2
25°	10792.2	10748.0	10552.3	10482.9	10293.6	10363.0	10558.7	10514.5	10363.0	9656.1	8810.4
27.5°	11694.7	11543.2	11581.1	11265.5	11082.5	11278.1	11511.6	11732.5	11303.4	10375.6	9176.5
30°	12332.1	12174.3	12161.7	12149.1	12104.9	12332.1	12603.5	12805.4	12458.3	11095.1	9782.4
32.5°	12647.7	12685.5	12792.8	12755.0	13139.9	13607.0	13891.0	14181.3	13745.8	12269.0	10583.9
35°	13487.1	13247.2	13487.1	13512.3	13909.9	14900.8	15260.5	15954.7	15847.4	13928.8	11562.1
37.5°	13979.3	13960.4	13991.9	14231.8	14616.8	15841.1	16352.3	16888.8	16686.8	14926.0	12780.2
40°	14793.5	14844.0	14837.6	15020.7	15443.5	16548.0	16756.3	17191.7	17210.7	16308.2	14572.6
42.5°	16099.9	15897.9	15765.4	15954.7	16548.0	17160.2	17576.7	17488.4	18113.2	17986.9	16876.2
45°	17273.8	17393.7	17198.0	17513.6	17728.2	18056.4	18043.7	18233.1	19028.3	19627.9	18611.8
47.5°	18371.9	18447.7	18542.3	18756.9	19223.9	19274.4	19167.1	19085.1	20183.2	20801.7	19956.0
50°	19028.3	19097.7	19539.5	19924.5	20795.4	20909.0	20972.1	20763.9	21508.6	21578.0	21224.6
52.5°	18851.6	18927.3	19545.8	20814.4	22202.8	23244.2	23054.8	22701.4	22657.2	22928.6	22398.5
55°	17286.4	17217.0	18069.0	20044.4	22644.6	25143.9	25169.1	24796.7	24083.6	23900.5	22221.8
56°	15954.7	15683.4	16768.9	19154.5	22076.6	24979.8	25263.8	24866.2	24197.2	23376.7	21129.9
57.5°	13070.5	13329.3	14408.5	16383.9	20113.8	23799.6	23963.7	23869.0	23364.1	21988.2	18592.8
60°	7207.4	7661.8	8614.8	11032.0	14320.1	18264.6	18397.2	19167.1	19261.8	16838.3	12792.8
62.5°	3060.9	3010.4	4001.3	5781.1	8154.1	11025.7	11271.8	12060.7	12205.9	9706.6	6418.5
65°	1243.3	1312.7	1811.3	2909.5	4310.6	5023.7	5370.8	5629.6	6109.2	4007.6	2366.7
67.5°	820.5	814.1	1066.6	1659.8	2322.5	2240.5	2240.5	2366.7	2190.0	1634.6	1022.4
70°	586.9	605.9	763.7	1148.6	1445.3	1072.9	1028.7	984.5	1117.1	1079.2	826.8
72.5°	385.0	410.2	511.2	687.9	751.0	586.9	586.9	706.9	921.4	870.9	675.3
75°	252.4	258.8	315.6	397.6	372.4	302.9	334.5	473.3	669.0	643.7	479.7
77.5°	170.4	176.7	214.6	258.8	208.3	170.4	183.0	239.8	328.2	328.2	252.4
80°	63.1	69.4	88.4	82.0	94.7	119.9	132.5	164.1	195.6	195.6	170.4
82.5°	0.0	6.3	18.9	44.2	69.4	94.7	107.3	126.2	145.2	164.1	157.8
85°	0.0	6.3	18.9	31.6	50.5	56.8	63.1	44.2	37.9	37.9	31.6
87.5°	0.0	0.0	6.3	6.3	6.3	6.3	6.3	6.3	12.6	6.3	6.3
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°	6620.5	6620.5	6620.5	6620.5	6620.5	6620.5	6620.5	6620.5	6620.5	6620.5	6620.5
2.5°	6620.5	6614.1	6614.1	6595.2	6633.1	6614.1	6626.8	6620.5	6538.4	6601.5	6557.3
5°	6689.9	6734.1	6664.6	6652.0	6601.5	6620.5	6620.5	6557.3	6614.1	6607.8	6595.2
7.5°	6866.6	6790.9	6715.1	6639.4	6626.8	6607.8	6538.4	6513.2	6557.3	6506.9	6582.6
10°	6942.3	6955.0	6841.3	6740.4	6645.7	6513.2	6418.5	6361.7	6292.3	6368.0	6412.2
12.5°	7289.4	7163.2	6967.6	6809.8	6487.9	6355.4	6260.7	6235.5	6355.4	6380.6	6336.5
15°	7409.4	7390.4	7138.0	6784.5	6450.1	6292.3	6311.2	6260.7	6273.3	6210.2	6222.9
17.5°	7655.5	7440.9	7144.3	6702.5	6443.7	6405.9	6292.3	6090.3	5976.7	5926.2	5970.4
20°	7926.9	7718.6	7289.4	6734.1	6500.5	6399.6	6027.2	5781.1	5547.6	5421.3	5427.6
22.5°	8166.7	7907.9	7226.3	6746.7	6551.0	6134.5	5686.4	5200.4	4910.1	4714.5	4720.8
25°	8457.0	8091.0	7251.6	6771.9	6418.5	5711.6	5067.9	4594.6	4247.4	4114.9	4159.1
27.5°	8621.1	8204.6	7390.4	6828.7	6071.4	5112.1	4417.8	3976.1	3774.1	3711.0	3704.7
30°	9113.4	8457.0	7560.8	6715.1	5490.8	4468.3	3824.6	3553.2	3357.6	3300.8	3313.4
32.5°	9845.5	8917.7	7781.7	6418.5	4897.5	3894.0	3439.6	3237.6	3054.6	2947.3	2934.7
35°	10457.7	9706.6	8015.2	5957.8	4209.6	3452.2	3168.2	2915.8	2638.1	2518.2	2486.6
37.5°	11625.2	10596.5	7964.7	5263.5	3553.2	3124.0	2877.9	2568.7	2328.8	2164.7	2145.8
40°	13177.8	11637.9	7718.6	4417.8	3067.2	2833.7	2568.7	2272.0	1975.4	1836.6	1823.9
42.5°	15064.9	12912.7	7270.5	3559.5	2581.3	2543.4	2303.6	1962.8	1697.7	1596.7	1603.0
45°	16598.5	14004.6	6816.1	2859.0	2221.5	2259.4	2051.1	1729.3	1546.2	1464.2	1464.2
47.5°	17961.7	14743.0	6323.8	2360.4	1887.1	1975.4	1792.4	1603.0	1445.3	1382.2	1369.5
50°	19274.4	15494.0	5831.6	1912.3	1609.4	1697.7	1678.8	1527.3	1401.1	1325.4	1331.7
52.5°	20094.9	15613.9	5206.7	1565.2	1407.4	1508.4	1571.5	1432.6	1293.8	1249.6	1237.0
55°	19091.4	14067.7	4039.2	1287.5	1192.8	1325.4	1445.3	1287.5	1180.2	1104.5	1098.2
56°	17740.8	12578.2	3376.5	1186.5	1129.7	1274.9	1401.1	1230.7	1110.8	1066.6	1035.0
57.5°	15020.7	10293.6	2492.9	1054.0	1047.7	1186.5	1331.7	1173.9	1035.0	997.2	997.2
60°	9365.8	5793.7	1508.4	883.6	908.8	1054.0	1199.1	1047.7	921.4	921.4	940.4
62.5°	4266.4	2410.9	915.1	751.0	782.6	908.8	1066.6	946.7	877.3	946.7	959.3
65°	1451.6	1041.3	662.7	599.6	618.5	751.0	915.1	959.3	953.0	997.2	1022.4
67.5°	814.1	669.0	555.4	498.6	486.0	555.4	751.0	959.3	921.4	902.5	915.1
70°	687.9	568.0	492.3	441.8	422.9	448.1	580.6	725.8	650.1	631.1	618.5
72.5°	555.4	473.3	429.2	397.6	340.8	290.3	265.1	277.7	309.2	328.2	359.7
75°	391.3	359.7	359.7	321.9	246.1	183.0	145.2	119.9	82.0	56.8	63.1
77.5°	220.9	220.9	227.2	195.6	157.8	119.9	88.4	63.1	31.6	12.6	6.3
80°	151.5	164.1	176.7	157.8	132.5	107.3	75.7	44.2	18.9	0.0	0.0
82.5°	151.5	170.4	183.0	157.8	132.5	101.0	75.7	44.2	18.9	6.3	0.0
85°	31.6	37.9	44.2	50.5	75.7	75.7	56.8	37.9	18.9	6.3	0.0
87.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	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)