

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: P530767

Luminaire Tested: **GALN-SA6A-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530767
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-730-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15020 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 182
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

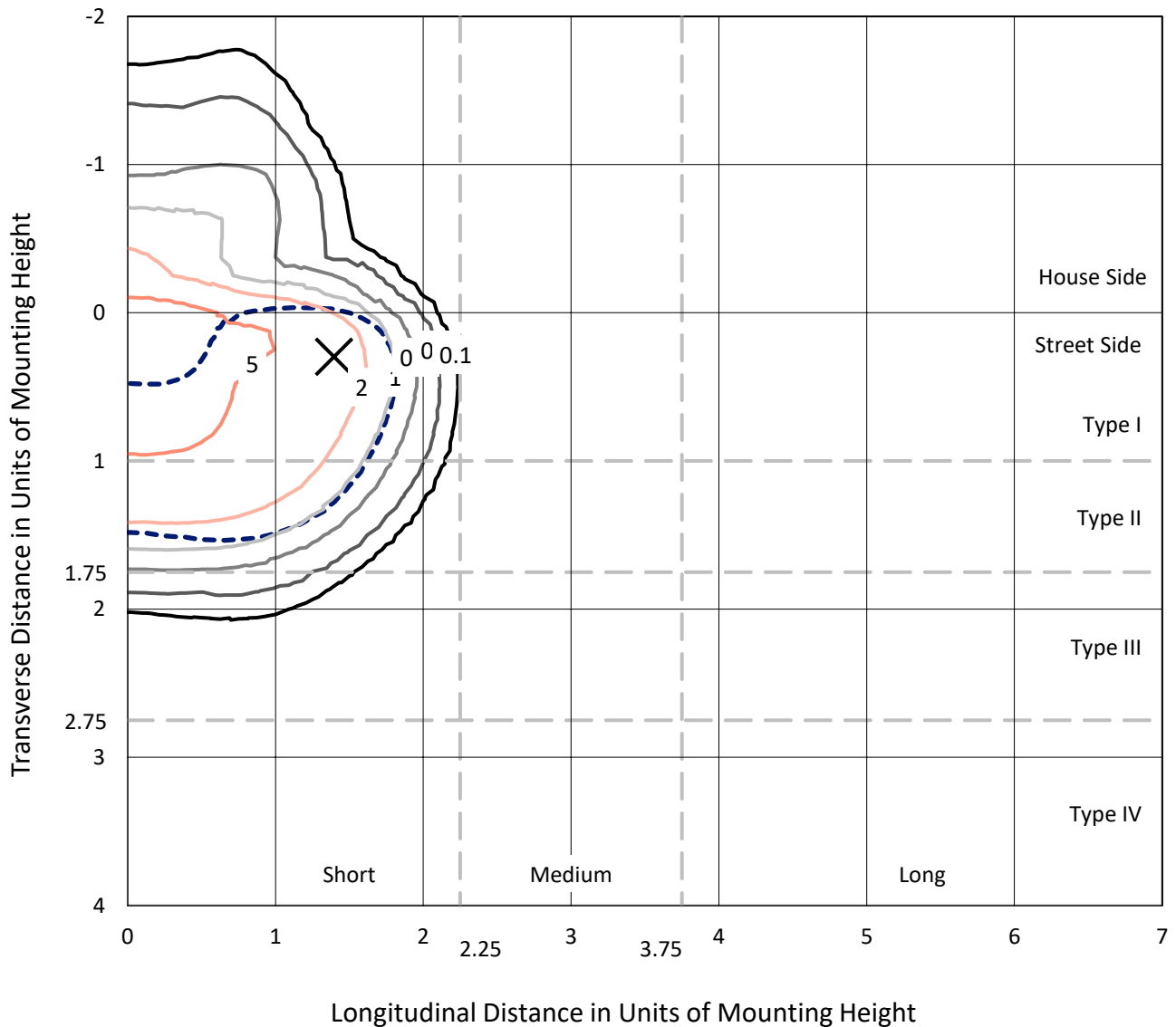




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Iso-Footcandle Lines of Horizontal Illumination

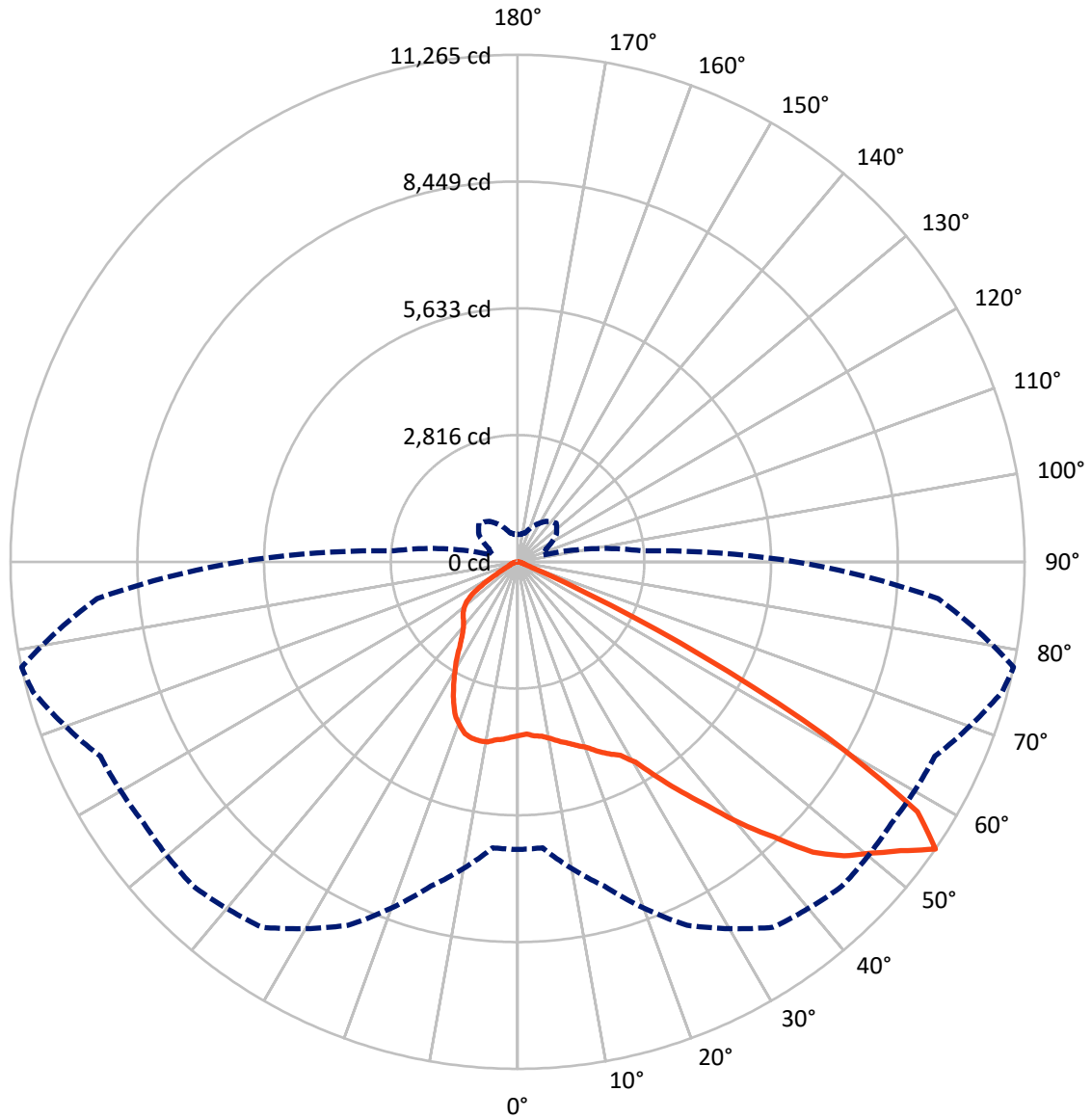
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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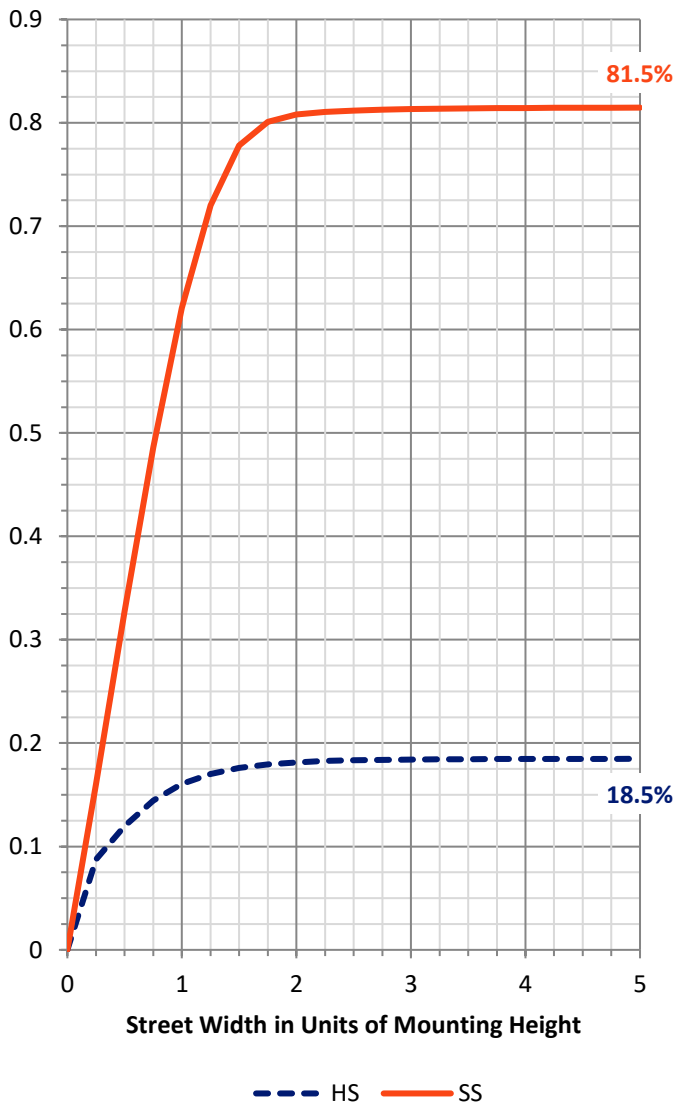
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2789.8	0.0	2789.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	12230.2	0.0	12230.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	15020.0	0.0	15020.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.3	2.3
10°-20°	911.3	6.1
20°-30°	1597.3	10.6
30°-40°	2633.8	17.5
40°-50°	3832.5	25.5
50°-60°	4342.6	28.9
60°-70°	1241.6	8.3
70°-80°	96.4	0.6
80°-90°	20.1	0.1
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°	15020.0	100.0
0°-180°	15020.0	100.0



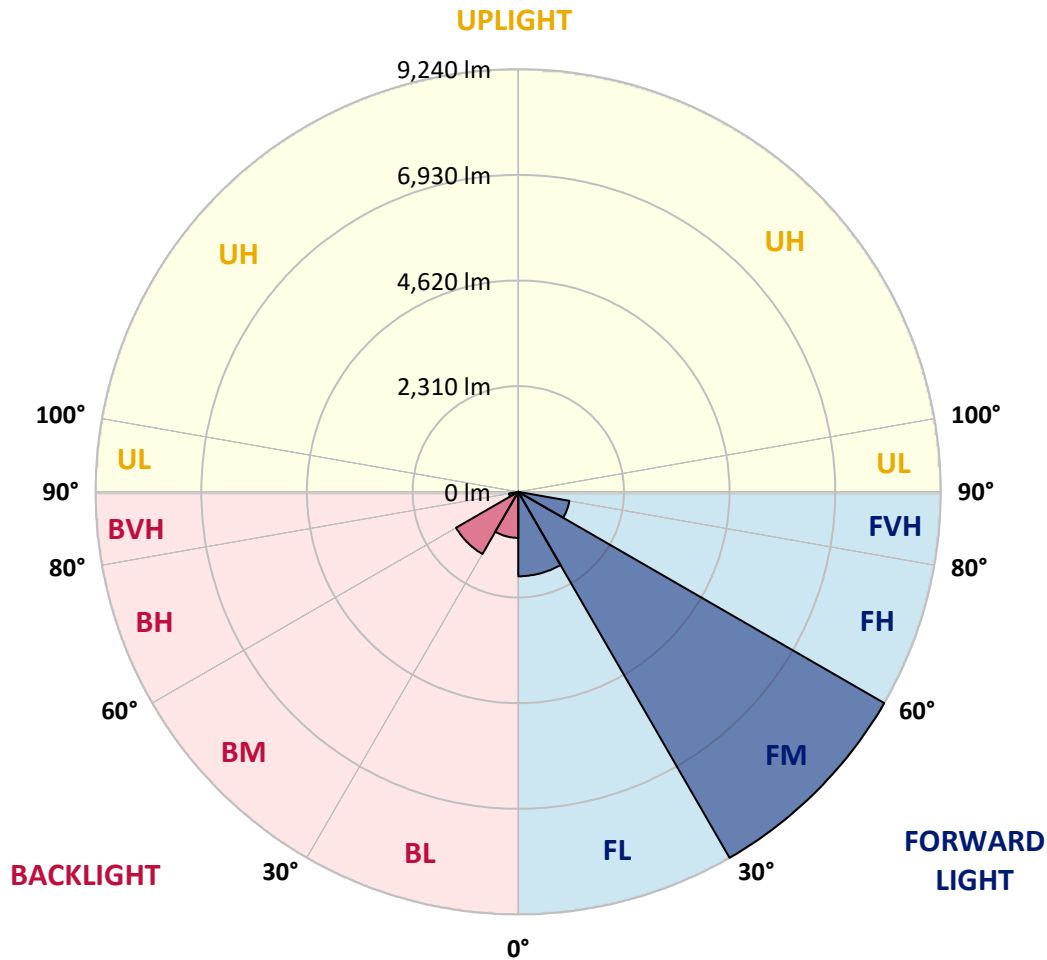
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1846.4	12.3			
FM (30°-60°)	9239.6	61.5			
FH (60°-80°)	1134.4	7.6			G1/1800
FVH (80°-90°)	9.8	0.1			G0/10
BL (0°-30°)	1006.6	6.7	B3/2500		
BM (30°-60°)	1569.3	10.4	B2/2500		
BH (60°-80°)	203.6	1.4	B1/500		G1/500
BVH (80°-90°)	10.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3861.7	3861.7	3861.7	3861.7	3861.7	3861.7	3861.7	3861.7	3861.7	3861.7	3861.7
2.5°	3630.7	3665.6	3671.0	3714.0	3711.3	3783.8	3805.3	3807.9	3856.3	3832.1	3893.9
5°	3528.7	3509.9	3501.8	3577.0	3598.5	3662.9	3716.6	3748.9	3848.2	3883.1	3947.6
7.5°	3437.4	3437.4	3442.7	3509.9	3501.8	3585.1	3641.4	3740.8	3885.8	3915.4	3993.2
10°	3348.7	3316.5	3356.8	3426.6	3485.7	3523.3	3641.4	3735.4	3904.6	3990.6	4098.0
12.5°	3303.1	3319.2	3324.6	3375.6	3440.0	3552.8	3617.3	3773.0	4038.9	4089.9	4205.4
15°	3590.4	3558.2	3480.3	3434.7	3488.4	3542.1	3703.2	3861.7	4108.7	4181.2	4310.1
17.5°	3923.4	3896.6	3832.1	3708.6	3587.7	3687.1	3813.3	3958.3	4183.9	4291.3	4482.0
20°	4358.5	4315.5	4251.0	4009.3	3904.6	3797.2	3931.5	4103.3	4307.4	4404.1	4600.1
22.5°	4876.7	4876.7	4731.7	4439.0	4221.5	4119.5	4175.8	4275.2	4444.4	4576.0	4769.3
25°	5416.5	5400.4	5268.8	4965.4	4597.5	4476.6	4541.1	4610.9	4656.5	4729.0	4857.9
27.5°	6034.2	5940.2	5773.7	5438.0	5113.1	4879.4	4949.3	4887.5	4831.1	4868.7	5054.0
30°	6453.1	6512.2	6300.0	5977.8	5671.6	5411.1	5424.6	5370.9	5113.1	5166.8	5276.9
32.5°	6888.1	6925.7	6807.6	6630.3	6324.2	6020.7	5910.6	5865.0	5671.6	5695.8	5588.4
35°	7250.7	7323.2	7218.4	7140.6	7051.9	6807.6	6504.1	6651.8	6340.3	6281.2	6001.9
37.5°	7583.7	7562.2	7685.7	7605.1	7586.3	7414.5	7081.5	7111.0	6901.6	6888.1	6565.9
40°	7881.7	7887.1	8056.3	8093.9	8018.7	7712.6	7229.2	7462.8	7632.0	7648.1	7234.6
42.5°	8128.8	8201.3	8346.3	8649.8	8537.0	8026.8	7382.3	7637.4	8265.8	8365.1	7868.3
45°	8343.6	8491.3	8671.3	8942.5	8878.0	8472.5	7763.6	7997.2	8942.5	9203.0	8464.5
47.5°	8357.1	8550.4	8746.5	9149.3	9229.8	8711.5	8158.3	8566.5	9479.6	9761.5	8899.5
50°	8303.4	8405.4	8797.5	9235.2	9417.8	9100.9	8711.5	9044.5	10000.5	10177.8	9119.7
52.5°	7666.9	7744.8	8531.6	9315.8	9756.2	9541.3	9444.7	9710.5	10532.3	10663.8	9326.5
55°	6391.3	6377.9	7460.1	8910.3	9911.9	10193.9	10134.8	10228.8	11147.2	11265.4	9377.5
57.5°	4371.9	4616.3	5550.8	7419.8	8958.6	10040.8	10102.6	9946.8	10430.2	10475.9	8174.5
60°	2357.8	2459.9	3211.8	4951.9	6821.0	8182.5	8343.6	8061.7	8024.1	7895.2	5835.4
62.5°	937.2	988.2	1415.2	2451.8	3716.6	4973.4	5319.8	5204.4	4957.3	4618.9	3021.1
65°	445.8	478.0	703.6	1146.7	1648.9	2073.2	2419.6	2527.0	1863.7	1678.4	996.3
67.5°	303.5	327.6	512.9	655.2	588.1	615.0	800.3	743.9	437.7	373.3	276.6
70°	230.9	247.1	410.9	445.8	263.2	185.3	206.8	193.4	179.9	182.6	179.9
72.5°	163.8	177.2	300.8	263.2	115.5	85.9	110.1	131.6	131.6	131.6	128.9
75°	99.4	112.8	174.6	102.0	45.7	45.7	69.8	88.6	94.0	96.7	91.3
77.5°	51.0	64.5	59.1	29.5	29.5	34.9	51.0	61.8	67.1	67.1	64.5
80°	10.7	10.7	10.7	16.1	29.5	37.6	51.0	56.4	64.5	64.5	59.1
82.5°	0.0	2.7	8.1	16.1	26.9	34.9	48.3	56.4	64.5	67.1	61.8
85°	0.0	2.7	5.4	10.7	18.8	21.5	18.8	16.1	16.1	16.1	16.1
87.5°	0.0	0.0	2.7	2.7	2.7	5.4	5.4	5.4	5.4	5.4	5.4
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°	3861.7	3861.7	3861.7	3861.7	3861.7	3861.7	3861.7	3861.7	3861.7	3861.7	3861.7
2.5°	3899.2	3907.3	3893.9	3891.2	3880.4	3912.7	3834.8	3816.0	3864.3	3818.7	3829.4
5°	3950.3	3969.1	3944.9	3904.6	3845.5	3754.2	3676.4	3574.3	3526.0	3491.1	3485.7
7.5°	3987.9	4001.3	3977.1	3848.2	3671.0	3440.0	3268.2	3142.0	3042.6	3013.1	2964.7
10°	4140.9	4143.6	4022.8	3738.1	3391.7	3088.2	2825.1	2631.7	2532.4	2470.6	2443.7
12.5°	4243.0	4237.6	3993.2	3520.6	3058.7	2655.9	2355.1	2121.5	2030.2	2000.6	1981.8
15°	4371.9	4342.3	3923.4	3297.7	2629.0	2194.0	1922.8	1761.6	1753.6	1734.8	1753.6
17.5°	4473.9	4390.7	3821.4	2892.2	2218.2	1807.3	1630.1	1640.8	1662.3	1681.1	1683.8
20°	4640.4	4468.6	3587.7	2537.7	1836.8	1549.5	1546.8	1595.1	1648.9	1670.3	1691.8
22.5°	4766.6	4500.8	3338.0	2159.1	1525.3	1444.8	1490.4	1562.9	1603.2	1624.7	1656.9
25°	4812.3	4412.2	3005.0	1780.4	1374.9	1396.4	1466.2	1514.6	1565.6	1589.8	1576.3
27.5°	4857.9	4366.5	2607.6	1466.2	1294.4	1364.2	1423.3	1471.6	1487.7	1520.0	1541.4
30°	4968.0	4208.1	2250.4	1267.5	1254.1	1342.7	1385.7	1401.8	1444.8	1463.6	1463.6
32.5°	5056.7	4146.3	1871.7	1173.5	1248.7	1353.5	1358.8	1358.8	1364.2	1350.8	1345.4
35°	5239.3	3934.2	1533.4	1117.1	1246.0	1356.1	1369.6	1323.9	1200.4	1152.1	1138.6
37.5°	5464.9	3797.2	1283.6	1103.7	1264.8	1388.4	1409.9	1238.0	1076.9	999.0	985.6
40°	5738.8	3700.5	1119.8	1098.3	1307.8	1463.6	1399.1	1170.8	961.4	848.6	843.2
42.5°	6058.3	3611.9	1009.7	1095.7	1361.5	1541.4	1388.4	1114.5	843.2	768.0	778.8
45°	6313.4	3563.6	934.5	1076.9	1380.3	1587.1	1396.4	1015.1	794.9	746.6	751.9
47.5°	6512.2	3461.5	872.8	1044.6	1377.6	1603.2	1323.9	974.8	770.7	784.1	797.6
50°	6517.5	3324.6	794.9	974.8	1337.3	1573.7	1240.7	937.2	765.3	821.7	848.6
52.5°	6445.0	3131.2	711.6	875.5	1243.4	1471.6	1165.5	921.1	741.2	735.8	768.0
55°	6187.2	2768.7	572.0	709.0	1050.0	1213.8	1098.3	891.6	668.7	606.9	612.3
57.5°	5000.3	1984.5	421.6	507.5	743.9	888.9	990.9	878.1	601.5	515.6	518.3
60°	3096.3	1125.2	308.8	346.4	459.2	539.8	802.9	816.4	537.1	435.0	429.7
62.5°	1589.8	555.9	239.0	244.4	282.0	316.9	550.5	684.8	486.1	413.6	413.6
65°	531.7	273.9	209.5	188.0	188.0	196.0	333.0	475.3	410.9	346.4	346.4
67.5°	228.3	204.1	182.6	163.8	150.4	142.3	188.0	276.6	306.1	263.2	252.4
70°	177.2	171.9	158.4	137.0	118.2	107.4	110.1	142.3	174.6	169.2	163.8
72.5°	131.6	131.6	126.2	107.4	91.3	77.9	72.5	75.2	83.2	85.9	88.6
75°	91.3	94.0	94.0	83.2	67.1	56.4	48.3	40.3	32.2	26.9	24.2
77.5°	61.8	64.5	69.8	61.8	51.0	37.6	29.5	21.5	13.4	5.4	5.4
80°	53.7	61.8	67.1	61.8	53.7	40.3	29.5	16.1	8.1	0.0	0.0
82.5°	56.4	61.8	69.8	59.1	51.0	37.6	29.5	18.8	8.1	2.7	0.0
85°	13.4	13.4	16.1	18.8	24.2	26.9	21.5	13.4	8.1	2.7	0.0
87.5°	5.4	5.4	5.4	5.4	5.4	2.7	2.7	2.7	2.7	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)