

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: P529830

Luminaire Tested: **GALN-SA5A-730-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529830  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-730-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17782 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

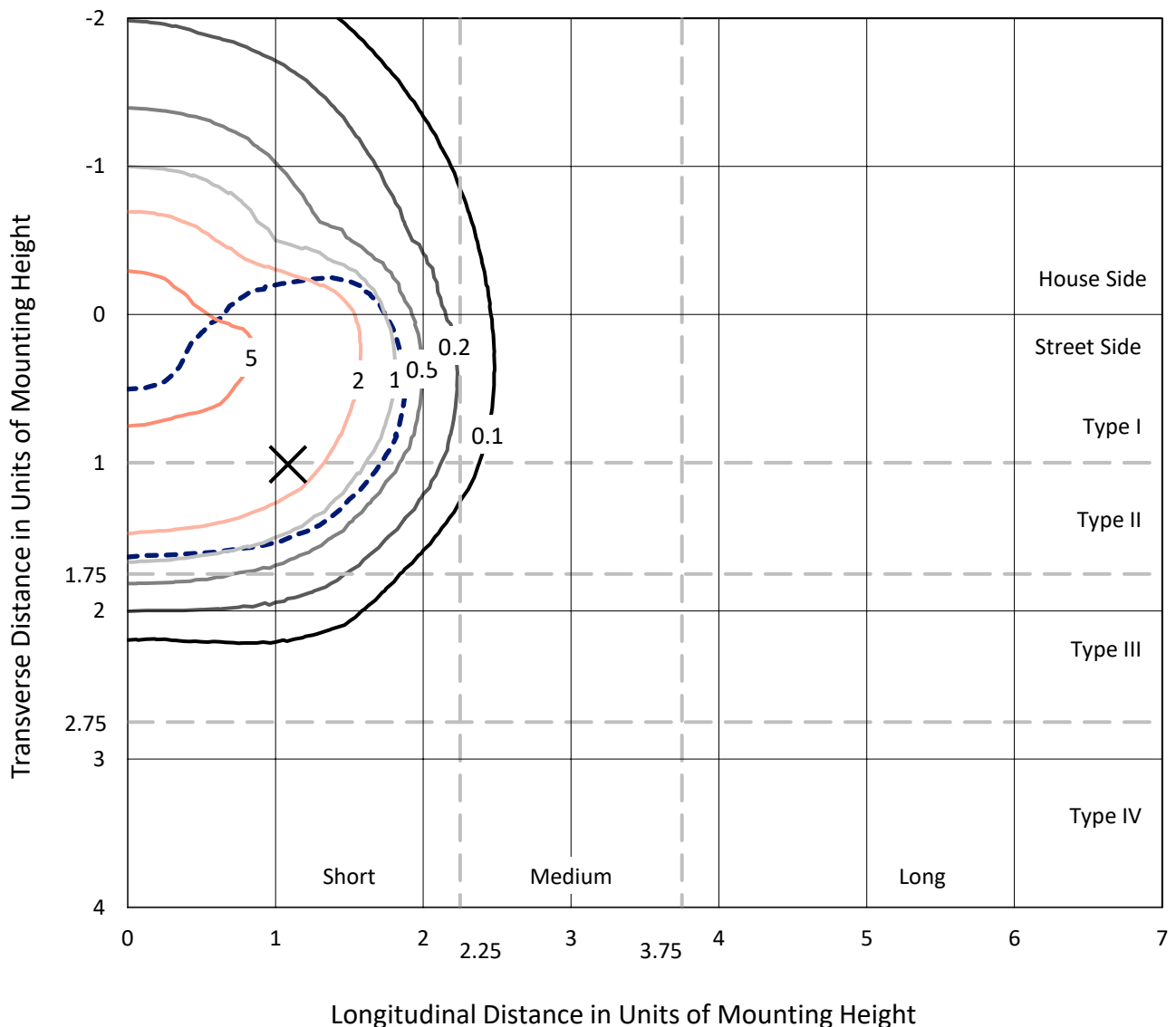
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

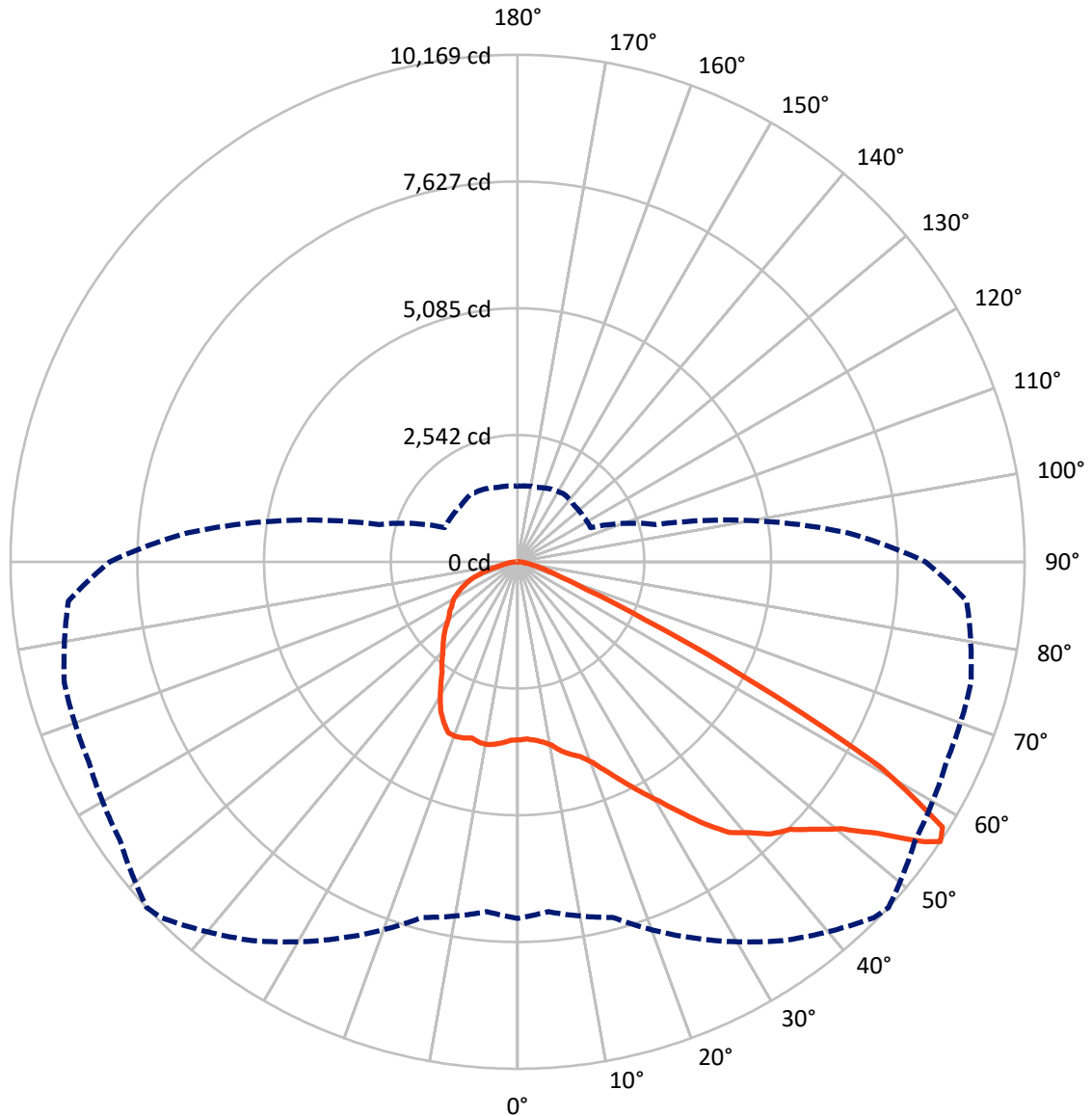
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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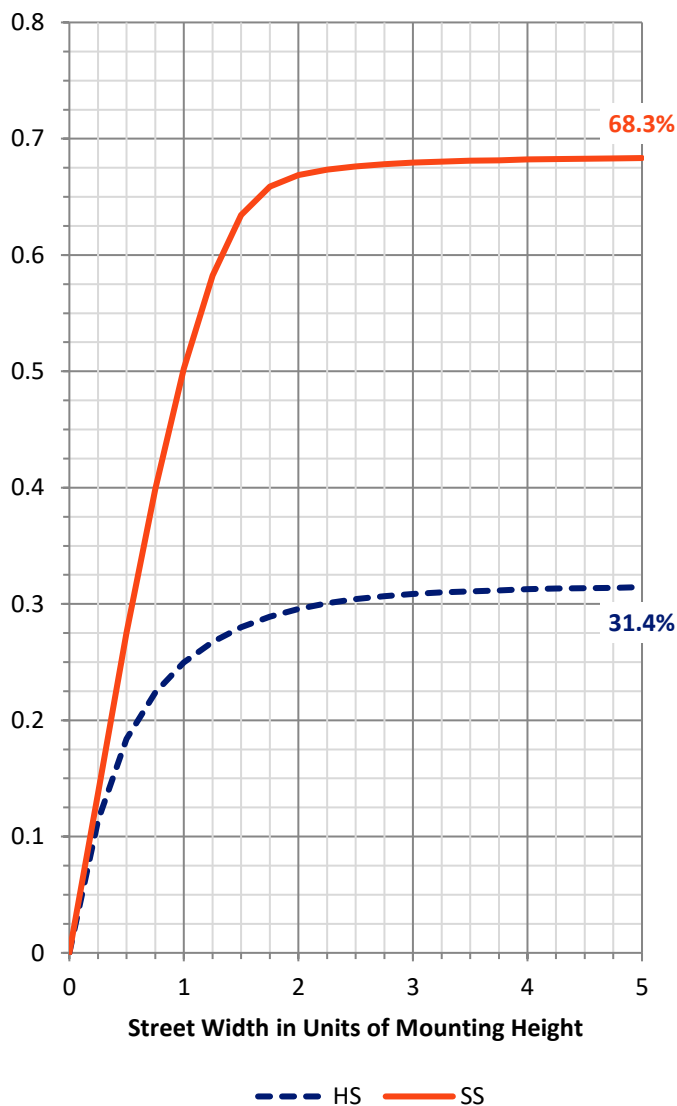
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5634.9	0.0	5634.9
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	12147.1	0.0	12147.1
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	17782.0	0.0	17782.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	348.0	2.0
10°-20°	1097.9	6.2
20°-30°	1940.8	10.9
30°-40°	2914.9	16.4
40°-50°	4000.5	22.5
50°-60°	4766.0	26.8
60°-70°	2039.6	11.5
70°-80°	577.2	3.2
80°-90°	97.1	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°	17782.0	100.0
0°-180°	17782.0	100.0

**Coefficient of Utilization**

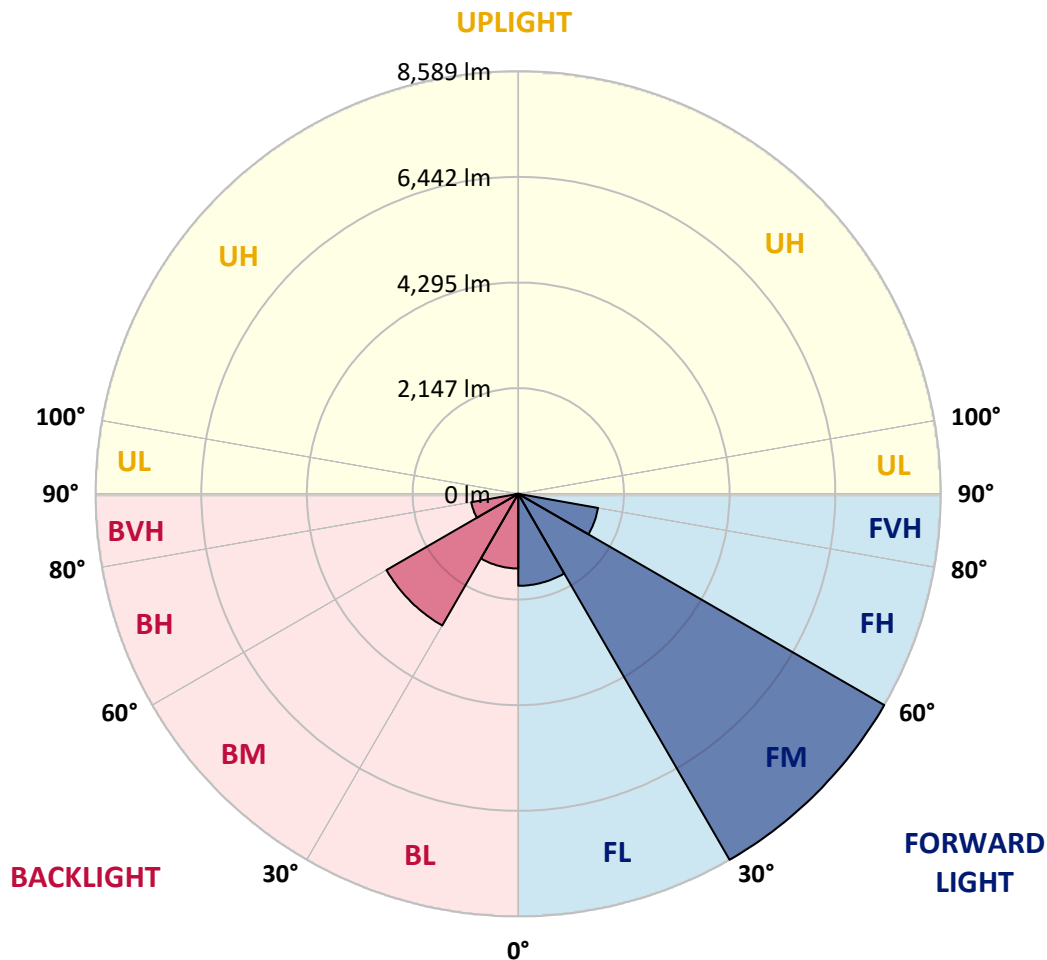


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1869.5	10.5			
FM (30°-60°)	8589.1	48.3			
FH (60°-80°)	1647.3	9.3			G1/1800
FVH (80°-90°)	41.2	0.2			G1/100
BL (0°-30°)	1517.1	8.5	B3/2500		
BM (30°-60°)	3092.3	17.4	B3/5000		
BH (60°-80°)	969.5	5.5	B2/1000		G2/1000
BVH (80°-90°)	55.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3571.9	3571.9	3571.9	3571.9	3571.9	3571.9	3571.9	3571.9	3571.9	3571.9	3571.9
2.5°	3558.3	3551.5	3546.9	3583.2	3569.6	3571.9	3558.3	3571.9	3580.9	3560.5	3590.0
5°	3551.5	3571.9	3553.7	3565.1	3594.5	3585.5	3594.5	3621.8	3615.0	3608.1	3599.1
7.5°	3615.0	3617.2	3630.8	3635.4	3644.4	3635.4	3649.0	3673.9	3667.1	3628.6	3633.1
10°	3705.7	3710.2	3712.5	3737.4	3753.3	3755.6	3739.7	3717.0	3714.7	3766.9	3730.6
12.5°	3810.0	3798.6	3825.9	3834.9	3853.1	3873.5	3893.9	3846.3	3875.8	3878.0	3834.9
15°	3961.9	3973.3	3941.5	3941.5	3948.3	3950.6	4007.3	3984.6	3980.1	3955.1	3973.3
17.5°	4188.7	4111.6	4109.3	4077.6	4073.1	4091.2	4111.6	4129.8	4191.0	4141.1	4043.6
20°	4354.3	4372.4	4306.6	4268.1	4274.9	4315.7	4295.3	4377.0	4420.0	4338.4	4243.1
22.5°	4646.8	4585.6	4601.5	4515.3	4522.1	4565.2	4562.9	4646.8	4671.8	4542.5	4404.2
25°	4844.1	4828.3	4841.9	4773.8	4782.9	4816.9	4871.3	5009.7	4968.9	4826.0	4506.2
27.5°	5132.1	5100.4	5089.1	5064.1	5055.0	5145.8	5209.3	5356.7	5327.2	5118.5	4687.6
30°	5427.0	5406.6	5417.9	5315.8	5352.1	5544.9	5563.0	5764.9	5751.3	5383.9	4889.5
32.5°	5631.1	5642.4	5662.8	5606.1	5767.1	5921.4	5982.6	6211.6	6223.0	5839.7	5279.6
35°	5959.9	5921.4	5932.7	5998.5	6073.3	6354.5	6454.3	6606.2	6701.5	6318.2	5653.7
37.5°	6166.3	6207.1	6159.5	6263.8	6458.8	6796.7	6887.5	7043.9	7143.7	6789.9	6164.0
40°	6488.3	6422.6	6456.6	6531.4	6731.0	7170.9	7146.0	7307.0	7338.8	7191.4	6640.3
42.5°	6835.3	6803.5	6755.9	6926.0	7093.8	7413.6	7463.5	7388.7	7549.7	7583.7	7320.6
45°	7250.3	7288.9	7295.7	7300.2	7447.6	7726.6	7658.5	7592.8	7778.7	8025.9	7742.4
47.5°	7635.9	7513.4	7601.8	7724.3	7932.9	7935.2	8014.6	7858.1	8055.4	8275.4	8123.4
50°	7765.1	7706.2	7824.1	8055.4	8377.4	8411.5	8420.5	8198.3	8300.3	8475.0	8255.0
52.5°	7715.2	7694.8	7996.4	8354.8	8826.5	8998.8	9044.2	8769.8	8826.5	8747.1	8545.3
55°	7477.1	7538.3	7842.2	8572.5	9295.9	9828.9	9915.0	9568.1	9207.5	9268.7	9046.5
56°	7150.5	7043.9	7384.1	8325.3	9275.5	10098.7	10169.0	9735.9	9491.0	9411.6	9041.9
57.5°	6066.5	5928.2	6374.9	7490.7	8760.7	9996.7	10048.8	9806.2	9443.3	9282.3	8382.0
60°	3551.5	3619.5	4186.5	5166.2	6758.2	8196.0	8370.6	8547.5	8304.9	7583.7	6238.9
62.5°	1714.5	1671.4	2077.4	2961.8	4118.4	5231.9	5179.8	5676.4	5948.6	5388.4	3939.3
65°	898.1	893.5	1133.9	1617.0	2263.3	2748.6	2796.3	3063.9	3438.1	2775.8	2000.2
67.5°	659.9	678.1	798.3	1136.2	1456.0	1485.4	1478.6	1612.4	1648.7	1394.7	1229.2
70°	517.1	526.1	614.6	864.1	1084.0	970.6	950.2	966.1	1072.7	1118.0	1063.6
72.5°	374.2	383.3	458.1	582.8	678.1	662.2	675.8	764.3	895.8	943.4	886.7
75°	249.5	256.3	297.1	356.1	401.4	433.2	458.1	560.2	682.6	709.8	682.6
77.5°	172.4	179.2	206.4	251.7	256.3	276.7	285.7	333.4	408.2	442.2	424.1
80°	97.5	97.5	111.1	129.3	158.7	186.0	190.5	229.1	263.1	285.7	290.3
82.5°	45.4	47.6	59.0	79.4	104.3	129.3	133.8	158.7	183.7	206.4	213.2
85°	22.7	24.9	34.0	47.6	63.5	77.1	74.8	77.1	81.6	77.1	79.4
87.5°	6.8	6.8	9.1	11.3	9.1	11.3	11.3	13.6	15.9	18.1	20.4
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°	3571.9	3571.9	3571.9	3571.9	3571.9	3571.9	3571.9	3571.9	3571.9	3571.9	3571.9
2.5°	3592.3	3599.1	3553.7	3596.8	3580.9	3578.7	3610.4	3605.9	3617.2	3612.7	3585.5
5°	3594.5	3578.7	3626.3	3583.2	3603.6	3646.7	3617.2	3685.3	3651.2	3673.9	3624.0
7.5°	3664.8	3669.4	3660.3	3678.5	3669.4	3689.8	3673.9	3689.8	3662.6	3664.8	3710.2
10°	3726.1	3712.5	3728.3	3705.7	3721.5	3714.7	3678.5	3667.1	3676.2	3664.8	3694.3
12.5°	3839.5	3814.5	3803.2	3776.0	3757.8	3689.8	3633.1	3601.3	3644.4	3651.2	3637.6
15°	3955.1	3957.4	3905.2	3844.0	3730.6	3628.6	3642.2	3653.5	3653.5	3671.6	3637.6
17.5°	4027.7	4027.7	3980.1	3857.6	3742.0	3683.0	3669.4	3633.1	3601.3	3596.8	3594.5
20°	4154.7	4116.1	4007.3	3855.3	3737.4	3710.2	3608.1	3522.0	3456.2	3433.5	3431.3
22.5°	4299.8	4202.3	4050.4	3859.9	3730.6	3692.1	3501.6	3372.3	3254.4	3204.5	3211.3
25°	4433.6	4277.2	4075.3	3839.5	3705.7	3519.7	3306.5	3127.4	3004.9	2964.1	2943.7
27.5°	4526.6	4356.5	4075.3	3857.6	3612.7	3326.9	3109.2	2880.2	2773.6	2746.4	2750.9
30°	4651.4	4456.3	4145.6	3819.1	3426.7	3077.5	2816.7	2667.0	2603.5	2580.8	2596.7
32.5°	4943.9	4717.1	4243.1	3726.1	3206.7	2828.0	2617.1	2533.2	2440.2	2394.8	2379.0
35°	5261.4	4964.3	4338.4	3569.6	2959.5	2601.2	2469.7	2392.6	2281.5	2231.6	2240.6
37.5°	5710.4	5281.8	4345.2	3311.1	2691.9	2474.2	2354.0	2233.8	2143.1	2066.0	2043.3
40°	6316.0	5715.0	4329.3	3038.9	2476.5	2324.5	2236.1	2086.4	1984.4	1929.9	1941.3
42.5°	6848.9	6223.0	4263.6	2730.5	2281.5	2222.5	2122.7	1975.3	1875.5	1818.8	1814.3
45°	7297.9	6597.2	4138.8	2467.4	2118.2	2109.1	1993.4	1880.0	1800.7	1748.5	1771.2
47.5°	7713.0	6898.8	3950.6	2204.4	1968.5	1986.6	1875.5	1805.2	1755.3	1707.7	1705.4
50°	7862.6	6894.3	3785.0	1986.6	1848.3	1839.2	1834.7	1759.9	1707.7	1666.9	1685.0
52.5°	8112.1	6971.4	3605.9	1837.0	1739.4	1741.7	1757.6	1703.2	1644.2	1619.2	1641.9
55°	8470.4	6982.7	3211.3	1662.3	1648.7	1664.6	1664.6	1628.3	1578.4	1558.0	1546.7
56°	8177.9	6644.8	2880.2	1617.0	1603.4	1603.4	1646.5	1605.6	1544.4	1528.5	1514.9
57.5°	7542.9	5821.6	2410.7	1562.5	1542.1	1573.9	1596.6	1553.5	1496.8	1474.1	1487.7
60°	5202.4	3939.3	1812.0	1444.6	1444.6	1496.8	1514.9	1451.4	1426.5	1424.2	1406.1
62.5°	3036.7	2295.1	1417.4	1338.0	1342.6	1385.7	1399.3	1363.0	1331.2	1369.8	1387.9
65°	1610.2	1369.8	1215.6	1224.6	1226.9	1260.9	1319.9	1317.6	1315.4	1326.7	1329.0
67.5°	1165.7	1138.5	1104.4	1095.4	1099.9	1124.9	1183.8	1229.2	1226.9	1199.7	1179.3
70°	1038.7	1000.1	979.7	982.0	963.8	993.3	1040.9	1070.4	1018.3	986.5	972.9
72.5°	864.1	852.7	839.1	841.4	805.1	798.3	743.9	743.9	730.2	721.2	737.1
75°	659.9	655.4	662.2	650.9	612.3	571.5	539.7	510.3	464.9	446.8	437.7
77.5°	417.3	430.9	446.8	421.8	405.9	376.5	344.7	315.2	278.9	258.5	258.5
80°	283.5	294.8	306.2	301.6	283.5	256.3	231.3	199.6	174.6	158.7	156.5
82.5°	215.4	224.5	240.4	222.2	204.1	181.4	161.0	138.3	115.7	97.5	97.5
85°	77.1	88.4	97.5	106.6	113.4	115.7	99.8	81.6	65.8	52.2	49.9
87.5°	20.4	22.7	24.9	22.7	22.7	22.7	24.9	22.7	20.4	15.9	15.9
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)