

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: P652497

Luminaire Tested: **GALN-SA7B-840-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-840-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33270.8 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

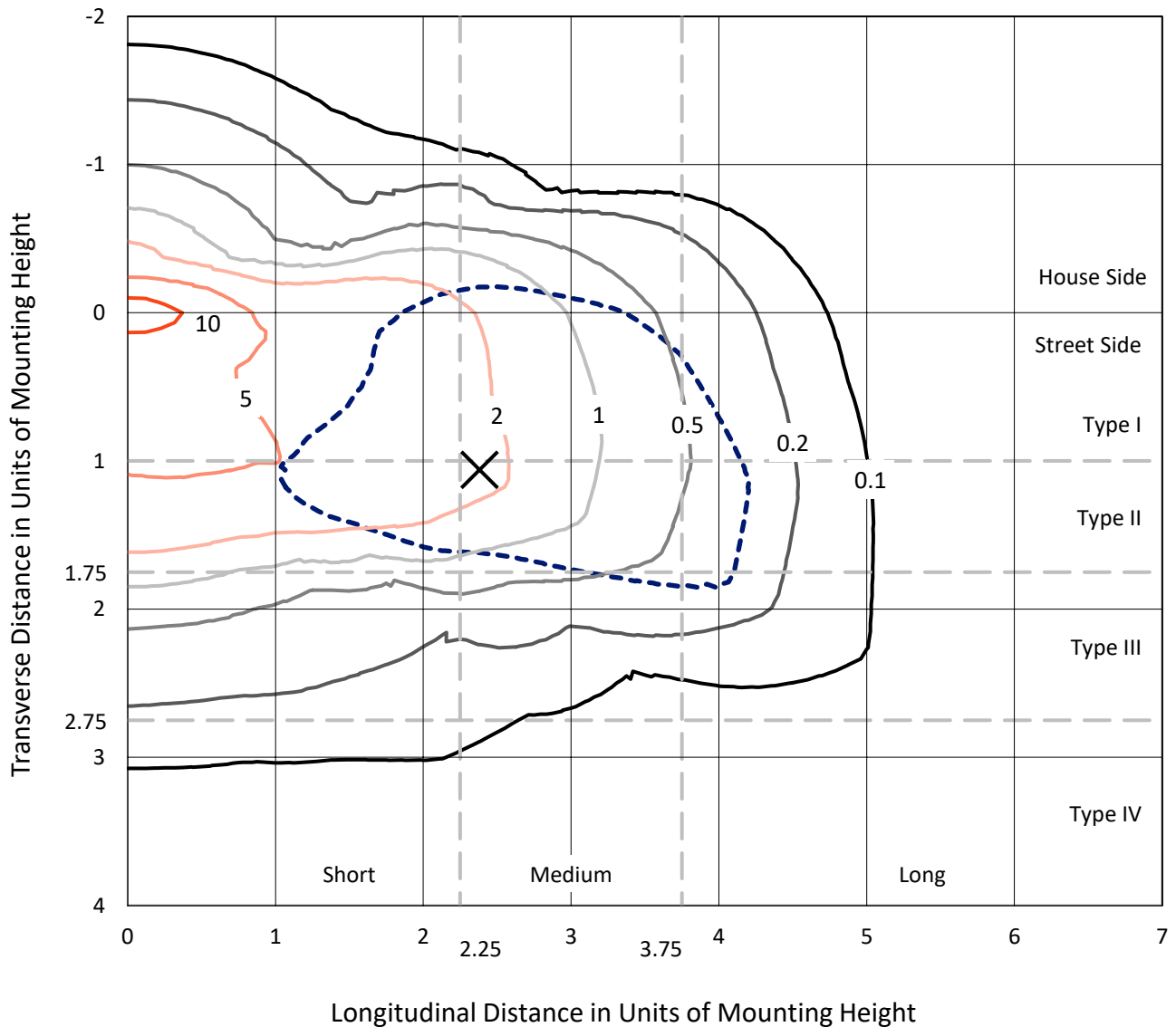
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

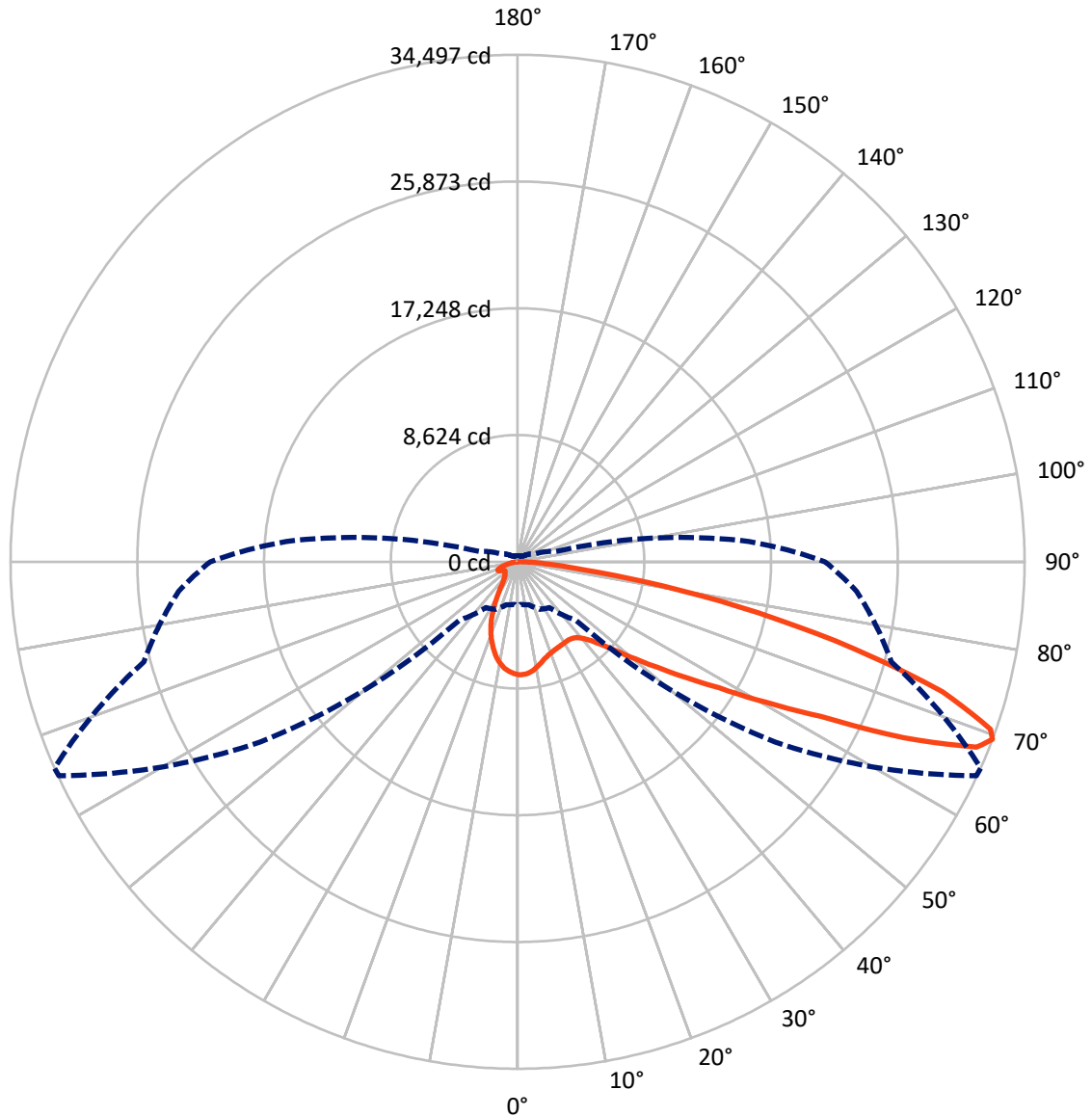
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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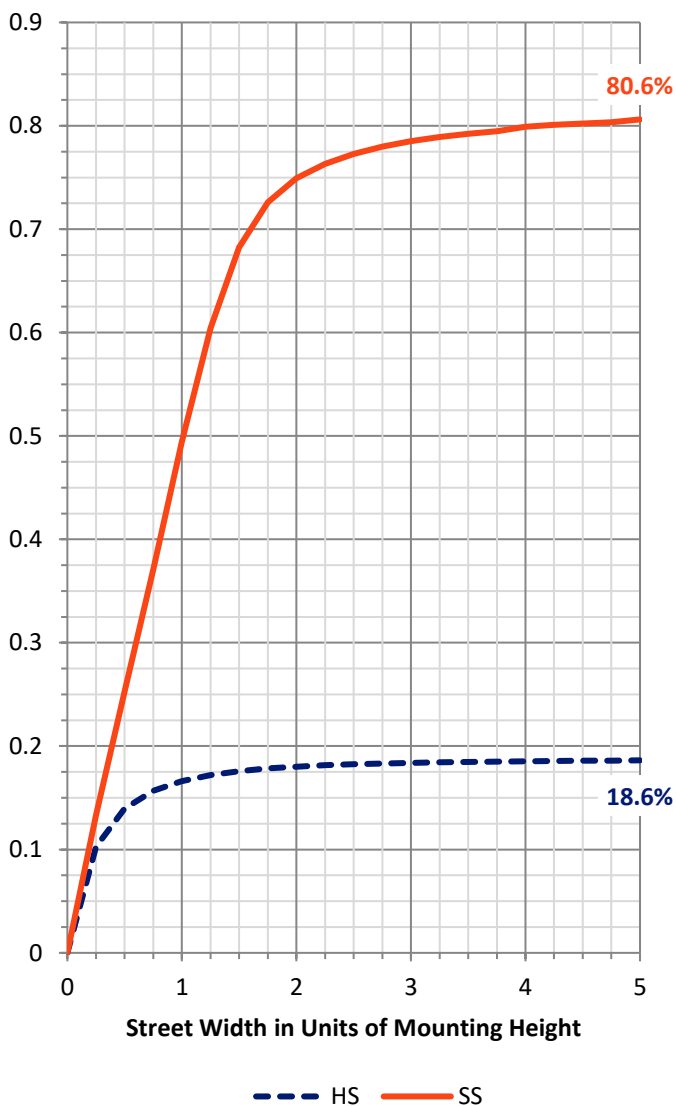
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6257.0	0.0	6257.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	27013.8	0.0	27013.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	33270.8	0.0	33270.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	667.2	2.0
10°-20°	1582.5	4.8
20°-30°	2154.4	6.5
30°-40°	2895.1	8.7
40°-50°	4322.8	13.0
50°-60°	6876.2	20.7
60°-70°	8457.3	25.4
70°-80°	5502.7	16.5
80°-90°	812.6	2.4
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°	33270.8	100.0
0°-180°	33270.8	100.0

Coefficient of Utilization

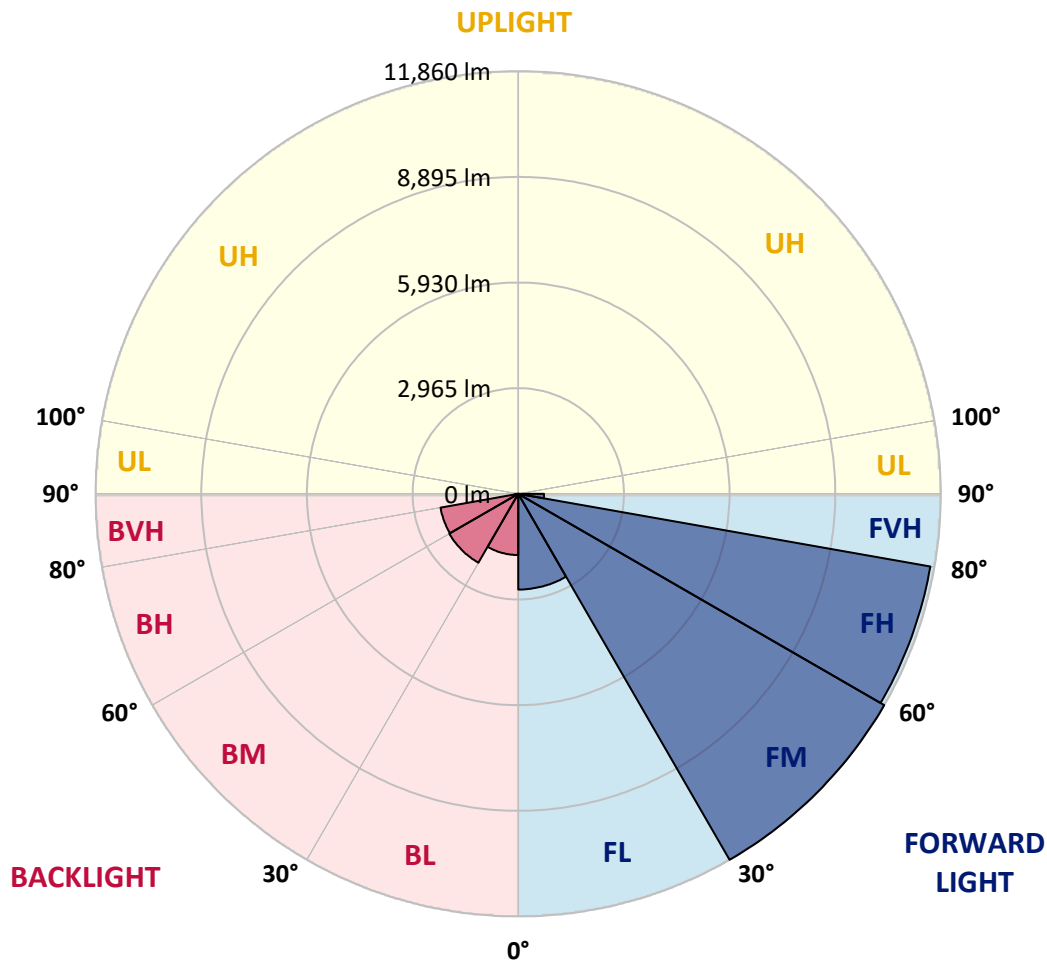


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2686.6	8.1			
FM (30°-60°)	11860.0	35.6			
FH (60°-80°)	11744.8	35.3			G4/12000
FVH (80°-90°)	722.4	2.2			G4/750
BL (0°-30°)	1717.6	5.2	B3/2500		
BM (30°-60°)	2234.0	6.7	B2/2500		
BH (60°-80°)	2215.2	6.7	B3/2500		G3/2500
BVH (80°-90°)	90.2	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-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7683.1	7683.1	7683.1	7683.1	7683.1	7683.1	7683.1	7683.1	7683.1	7683.1	7683.1
2.5°	7414.2	7443.6	7476.8	7513.7	7583.6	7622.3	7650.0	7681.3	7685.0	7701.5	7688.7
5°	6866.9	6901.9	6951.7	7021.7	7126.7	7290.7	7460.2	7598.4	7615.0	7692.4	7714.5
7.5°	6410.0	6430.3	6470.8	6583.2	6732.5	6914.9	7161.7	7441.8	7482.3	7666.6	7731.1
10°	6037.8	6058.1	6106.0	6222.1	6369.5	6597.9	6868.8	7237.3	7270.4	7587.3	7734.8
12.5°	5759.6	5778.0	5829.6	5943.9	6113.4	6327.1	6625.6	7016.2	7064.1	7482.3	7699.8
15°	5547.7	5582.7	5625.1	5719.1	5897.8	6104.1	6393.5	6813.5	6852.2	7371.8	7675.8
17.5°	5457.4	5474.0	5503.5	5590.1	5720.9	5923.6	6214.7	6655.1	6701.1	7294.4	7670.3
20°	5461.1	5477.7	5483.2	5531.2	5625.1	5800.1	6087.6	6529.8	6585.0	7226.2	7679.5
22.5°	5586.4	5588.3	5568.0	5551.4	5588.3	5733.8	5997.3	6435.8	6500.3	7196.8	7686.8
25°	5779.9	5813.0	5783.6	5706.2	5638.0	5708.0	5962.3	6384.2	6445.0	7154.4	7677.7
27.5°	6093.1	6098.6	6074.6	5969.7	5792.7	5741.2	5947.6	6345.5	6397.1	7123.0	7631.6
30°	6513.2	6496.6	6474.5	6358.4	6080.2	5868.3	5978.8	6310.5	6363.9	7077.0	7576.3
32.5°	6938.8	6990.4	6970.1	6833.8	6472.7	6115.2	6080.2	6306.8	6351.1	7041.9	7515.5
35°	7390.2	7414.2	7510.0	7439.9	7069.6	6515.1	6270.0	6363.9	6398.9	7043.8	7473.1
37.5°	7743.9	7808.4	8033.2	8094.0	7745.8	7043.8	6577.6	6526.1	6540.8	7134.1	7489.7
40°	8171.4	8282.0	8571.2	8820.0	8591.5	7731.1	7100.9	6826.4	6844.8	7351.5	7598.4
42.5°	8713.1	8790.5	9179.3	9516.4	9479.6	8639.4	7734.8	7318.4	7327.5	7784.5	7902.4
45°	9346.9	9457.5	9894.1	10400.8	10487.4	9667.5	8650.4	8062.7	8057.2	8457.0	8469.9
47.5°	10157.6	10225.8	10658.7	11211.5	11561.6	10959.1	9761.5	9131.3	9072.4	9437.2	9332.2
50°	10903.8	11010.7	11338.6	11943.0	12814.5	12471.8	11222.6	10516.9	10378.7	10719.6	10542.7
52.5°	11217.0	11329.4	11605.8	12355.7	13888.6	14428.4	13078.0	12169.6	11939.3	12200.9	12136.5
55°	10673.5	10819.0	11077.0	11989.0	14360.3	16685.5	15580.0	14080.3	13912.6	13800.2	13818.6
57.5°	9212.4	9350.6	9698.8	10704.8	13796.5	18323.5	19152.6	16536.2	16177.0	15659.3	15747.7
60°	7012.5	7099.0	7279.6	8394.4	12125.4	18749.1	23209.7	19640.9	19412.4	17511.0	17573.6
62.5°	4980.2	5077.9	5203.2	5759.6	8877.1	17549.7	26386.2	23976.2	23160.0	19429.0	19368.1
65°	4044.3	3977.9	4129.0	4388.8	5208.7	13601.2	27101.1	29993.8	28869.8	21955.1	21111.2
67.5°	3325.7	3255.7	3404.9	3867.3	3961.4	7895.1	24525.3	33899.9	33675.1	24702.2	22881.8
69°	2944.3	2907.4	3038.3	3565.2	3802.9	5606.7	21365.4	34443.4	34496.8	26321.7	23154.5
70°	2653.2	2667.9	2795.1	3412.3	3731.0	4622.8	18260.9	33693.5	34146.7	27130.6	22859.6
72.5°	1953.1	1984.3	2161.2	2826.3	3662.9	3922.7	10867.0	29430.0	30231.4	27178.4	20912.1
75°	1365.3	1350.6	1507.2	2128.1	3460.2	3887.6	6382.3	22760.2	23668.5	23491.7	17571.8
77.5°	893.6	917.5	1042.8	1503.5	2911.1	3858.2	4160.3	16147.5	16737.1	15710.9	10393.4
80°	630.2	628.3	698.3	1026.3	2159.4	3707.0	3406.7	10177.9	10028.7	6174.1	3082.4
82.5°	361.1	386.9	468.0	722.3	1444.5	3263.0	3134.1	4867.9	4444.1	1759.5	1041.0
85°	200.8	210.1	278.2	436.6	843.9	2457.9	2736.1	2214.7	2089.4	735.1	447.7
87.5°	64.5	70.1	116.1	221.1	383.2	1160.7	1549.5	1022.6	943.3	265.3	180.6
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°	7683.1	7683.1	7683.1	7683.1	7683.1	7683.1	7683.1	7683.1	7683.1	7683.1	7683.1
2.5°	7694.2	7716.3	7657.4	7600.2	7548.6	7476.8	7412.3	7358.8	7322.0	7316.5	7298.1
5°	7720.0	7721.8	7609.5	7458.4	7311.0	7148.8	6981.1	6861.4	6749.0	6686.4	6655.1
7.5°	7738.5	7721.8	7519.2	7274.1	6990.4	6695.6	6400.8	6165.0	5982.5	5910.7	5938.3
10°	7731.1	7679.5	7382.8	6990.4	6577.6	6137.3	5713.5	5381.9	5077.9	4921.3	4925.0
12.5°	7690.5	7605.8	7180.1	6671.7	6065.5	5475.8	4827.3	4379.6	4027.6	3819.5	3755.0
15°	7655.5	7508.1	6942.5	6238.6	5485.1	4643.1	3852.6	3299.9	3005.1	2841.1	2839.3
17.5°	7618.7	7414.2	6682.7	5779.9	4818.1	3734.7	2905.6	2483.6	2345.5	2362.0	2334.4
20°	7579.9	7303.6	6411.9	5269.5	4005.6	2785.8	2176.0	2004.6	2043.3	2118.8	2129.9
22.5°	7535.8	7185.7	6120.7	4707.6	3150.6	2096.8	1765.1	1739.3	1838.8	1956.8	1973.3
25°	7467.6	7038.2	5754.0	4119.8	2430.2	1689.6	1545.8	1564.3	1661.9	1761.4	1772.5
27.5°	7371.8	6855.9	5383.7	3386.5	1825.9	1450.1	1413.2	1437.1	1485.0	1545.8	1560.6
30°	7242.8	6649.5	4958.1	2752.7	1462.9	1330.3	1315.5	1328.4	1356.0	1381.8	1389.2
32.5°	7113.9	6450.6	4528.8	2107.8	1304.5	1251.1	1236.3	1236.3	1236.3	1240.0	1241.8
35°	6994.1	6262.6	4068.2	1641.6	1221.6	1188.4	1168.1	1146.0	1142.3	1129.5	1129.5
37.5°	6927.7	6091.3	3578.1	1374.5	1160.7	1136.8	1109.2	1072.4	1052.1	1053.9	1050.2
40°	6940.6	5978.8	3132.2	1223.4	1111.0	1085.2	1042.8	1000.5	987.6	987.6	983.9
42.5°	7086.2	5942.0	2704.7	1144.2	1063.1	1033.7	980.2	941.5	934.1	932.3	935.9
45°	7421.5	6032.3	2321.5	1092.6	1022.6	978.3	924.9	889.9	882.5	882.5	880.7
47.5°	8075.6	6325.2	2047.0	1059.4	993.1	935.9	880.7	845.7	832.8	829.1	829.1
50°	9092.6	6960.9	1842.5	1030.0	956.2	897.3	840.2	799.6	779.4	777.5	775.7
52.5°	10505.9	7952.2	1763.2	1007.9	915.7	856.7	794.1	755.4	729.7	724.1	720.4
55°	12158.5	9335.9	1872.0	991.3	873.4	810.7	746.2	705.7	681.7	670.7	668.8
57.5°	14072.9	10997.8	2284.7	969.2	834.6	760.9	698.3	657.7	632.0	619.1	615.4
60°	15791.9	12705.7	3005.1	956.2	801.5	707.5	643.0	606.2	582.2	569.4	567.5
62.5°	17680.4	14334.5	3865.5	991.3	786.8	655.9	591.5	558.3	538.0	525.1	525.1
65°	19698.0	15965.1	4434.8	1109.2	808.9	615.4	536.1	508.6	490.1	480.9	479.0
67.5°	21057.7	16528.9	3653.6	1230.8	864.1	571.2	482.7	460.6	449.6	440.3	440.3
69°	20910.4	15815.8	2695.6	1262.1	880.7	549.1	453.2	436.6	421.9	418.2	414.5
70°	20444.2	15003.4	2258.8	1241.8	867.8	528.8	434.8	414.5	401.7	398.0	396.1
72.5°	18209.2	13011.6	1682.2	1079.7	738.8	458.8	385.1	366.7	355.6	350.1	350.1
75°	15128.7	10634.8	1313.7	858.6	578.5	386.9	329.8	315.0	305.9	302.2	300.3
77.5°	8479.1	5938.3	943.3	672.5	438.5	313.2	276.4	263.5	254.2	250.6	250.6
80°	2362.0	1696.9	554.6	444.0	298.5	237.7	219.2	210.1	197.1	188.0	193.4
82.5°	889.9	735.1	316.9	267.2	189.8	158.4	152.9	145.6	140.0	127.2	127.2
85°	432.9	357.4	202.7	141.9	105.0	82.9	79.2	75.5	71.8	62.7	64.5
87.5°	149.3	158.4	88.5	51.6	31.3	20.3	16.6	9.3	9.3	9.3	9.3
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)