

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: P455805

Luminaire Tested: **GALN-SA7A-730-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29174 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

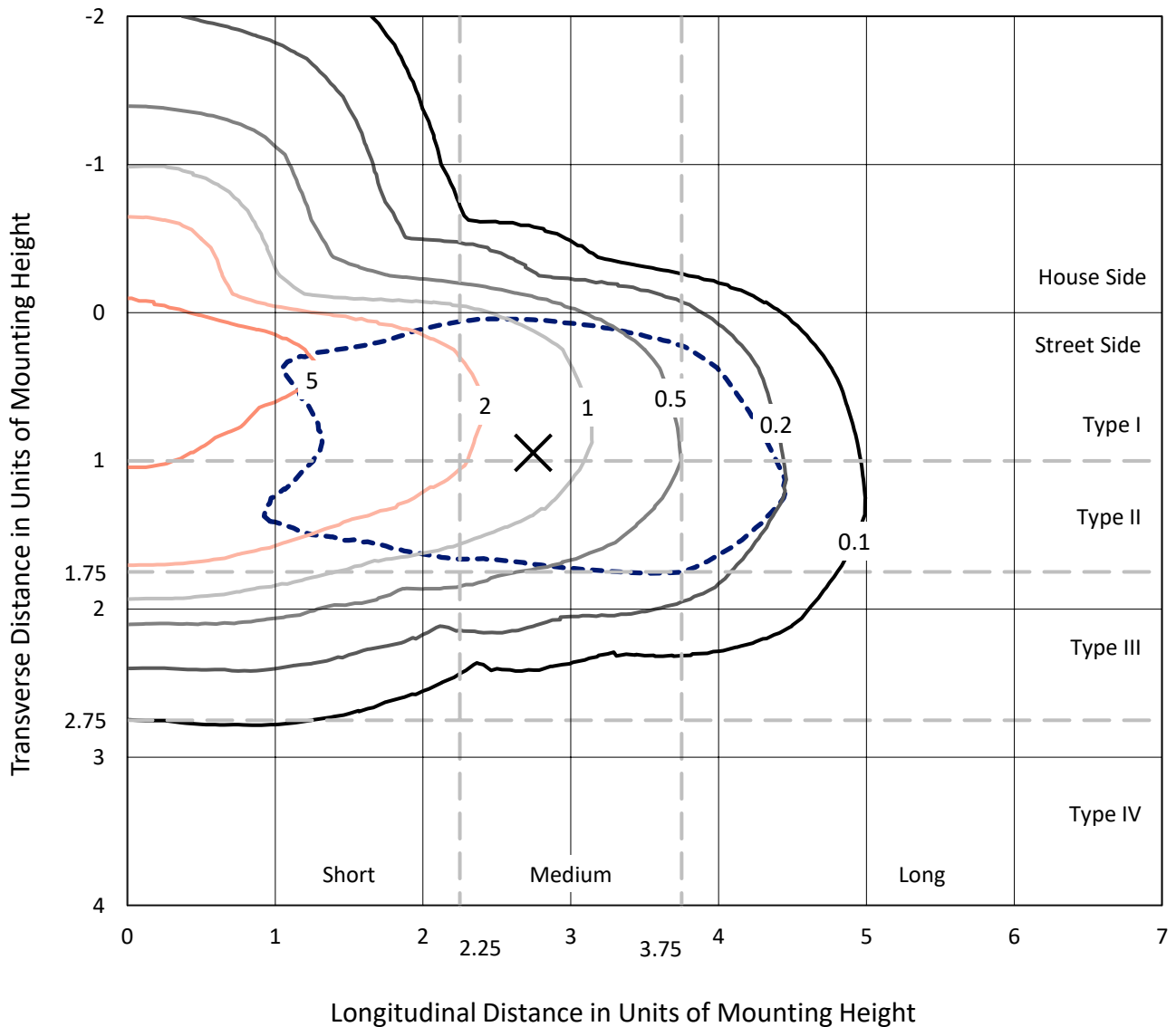
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

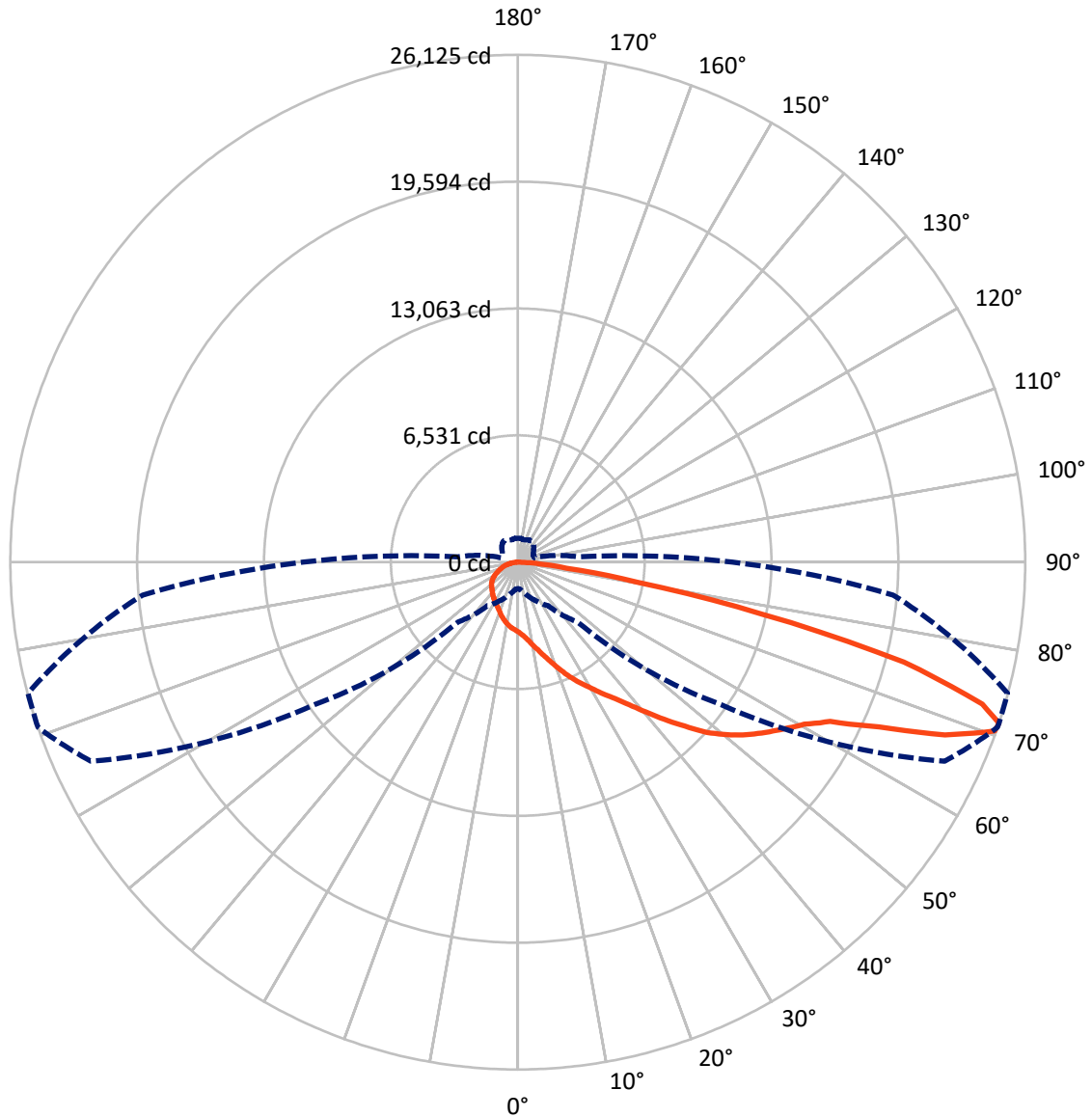
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical



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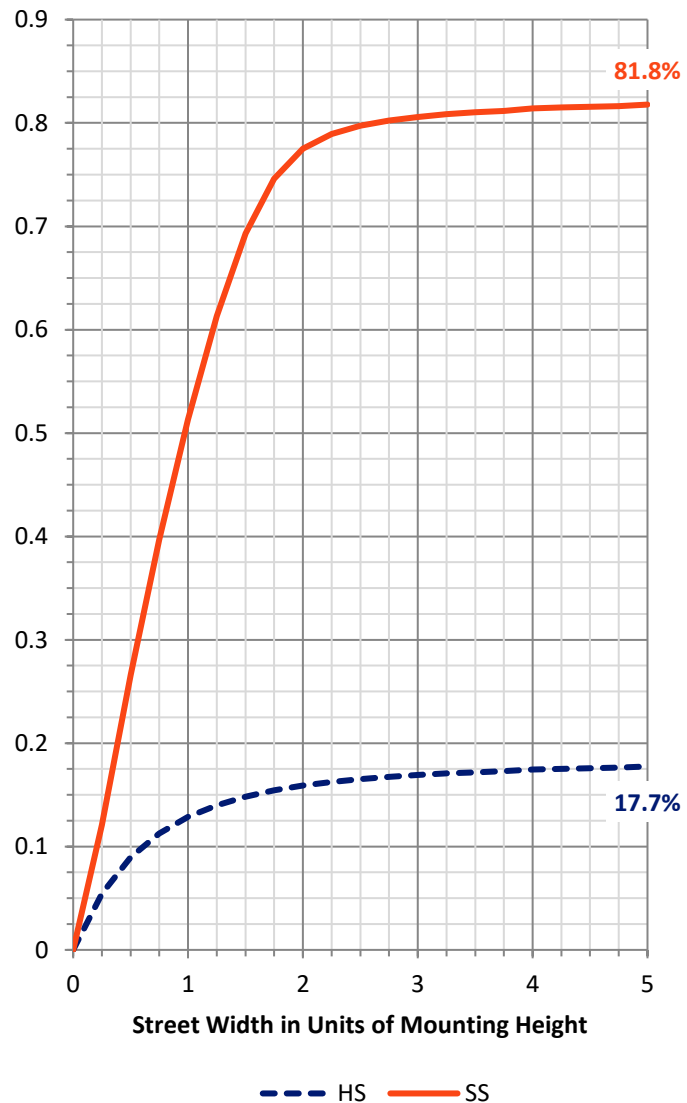
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5246.9	0.0	5246.9
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	23927.1	0.0	23927.1
	% Fixture	82.0	0.0	82.0
Total	Lumens	29174.0	0.0	29174.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.5	1.2
10°-20°	1168.0	4.0
20°-30°	2041.2	7.0
30°-40°	3036.0	10.4
40°-50°	4473.2	15.3
50°-60°	6262.6	21.5
60°-70°	7004.5	24.0
70°-80°	4278.6	14.7
80°-90°	550.4	1.9
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°	29174.0	100.0
0°-180°	29174.0	100.0



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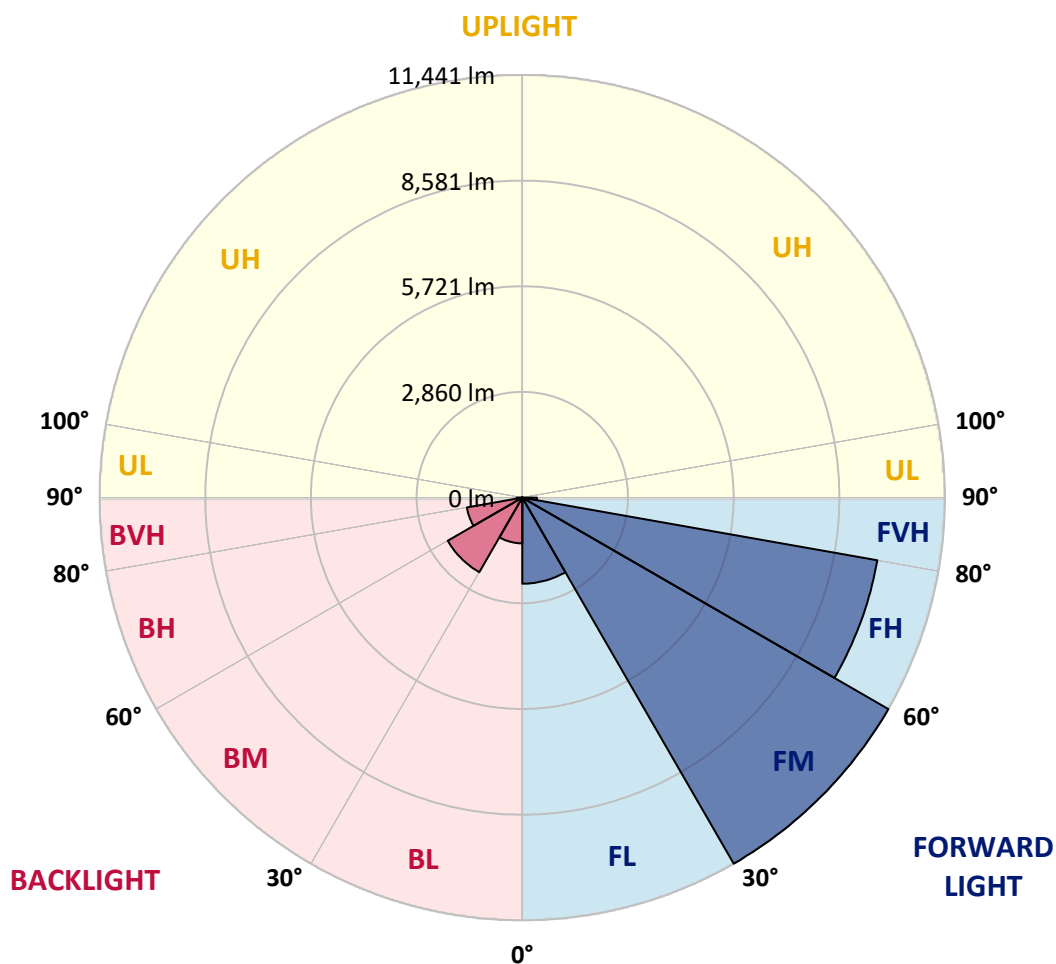
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2331.0	8.0			
FM	(30°-60°)	11441.5	39.2			
FH	(60°-80°)	9758.6	33.4			G4/12000
FVH	(80°-90°)	396.0	1.4			G3/500
BL	(0°-30°)	1237.7	4.2	B3/2500		
BM	(30°-60°)	2330.3	8.0	B2/2500		
BH	(60°-80°)	1524.4	5.2	B3/2500		G3/2500
BVH	(80°-90°)	154.4	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5
2.5°	3975.0	3955.7	3957.3	3930.1	3894.8	3856.3	3801.8	3753.7	3715.2	3692.8	3627.0
5°	4404.7	4385.5	4361.4	4302.1	4276.4	4181.8	4061.6	3952.5	3869.2	3822.7	3691.2
7.5°	4752.7	4747.9	4741.4	4707.8	4642.0	4510.5	4407.9	4218.7	4095.2	4007.1	3782.6
10°	4967.5	4975.5	4980.4	4986.8	4959.5	4890.6	4749.5	4510.5	4353.4	4241.2	3901.2
12.5°	5076.6	5084.6	5111.8	5171.2	5208.0	5200.0	5084.6	4850.5	4634.0	4486.5	4027.9
15°	5143.9	5156.7	5204.8	5283.4	5406.9	5485.4	5429.3	5212.9	4975.5	4800.8	4178.6
17.5°	5217.7	5232.1	5285.0	5397.3	5559.2	5729.2	5790.1	5604.1	5345.9	5137.5	4347.0
20°	5259.4	5278.6	5354.0	5501.5	5690.7	5937.6	6139.7	6041.8	5759.6	5528.7	4541.0
22.5°	5326.7	5342.7	5406.9	5564.0	5790.1	6099.6	6489.2	6468.4	6219.8	5921.6	4754.3
25°	5509.5	5535.2	5567.2	5661.8	5879.9	6264.7	6779.4	6923.8	6665.6	6332.1	4949.9
27.5°	5854.2	5875.1	5873.5	5886.3	6009.8	6407.4	7031.2	7374.3	7108.2	6747.4	5139.1
30°	6247.1	6255.1	6261.5	6232.7	6259.9	6553.4	7262.1	7820.1	7553.9	7173.9	5304.3
32.5°	6724.9	6741.0	6686.4	6612.7	6590.2	6769.8	7452.9	8265.9	8081.5	7606.8	5467.8
35°	7289.3	7331.0	7220.4	7090.5	6999.1	7080.9	7709.5	8721.2	8621.8	8160.0	5684.3
37.5°	7933.9	7985.2	7882.6	7627.7	7497.8	7520.2	8044.6	9284.1	9304.9	8790.2	6006.6
40°	8461.5	8528.8	8532.0	8171.2	7974.0	7999.7	8469.5	9890.2	10129.1	9569.5	6386.6
42.5°	8809.4	8875.2	8944.1	8732.5	8525.6	8671.5	8965.0	10547.6	11055.9	10515.5	6917.3
45°	9191.1	9250.4	9288.9	9192.7	9077.2	9455.6	9563.1	11246.7	12043.6	11572.2	7497.8
47.5°	9633.6	9699.3	9736.2	9644.8	9601.5	10143.5	10207.6	11899.3	13098.7	12598.4	8139.2
50°	10223.7	10273.4	10254.1	10196.4	10186.8	10671.0	10826.6	12510.2	13969.4	13703.2	8804.6
52.5°	10958.1	11017.4	11038.2	10956.5	10919.6	11047.9	11325.3	13066.6	14761.5	14652.4	9514.9
55°	11402.2	11496.8	11814.3	11942.6	12030.8	11535.3	11862.4	13680.7	15471.8	15653.0	10278.2
57.5°	10833.0	10954.9	11665.2	12306.6	13135.6	12753.9	12624.1	14322.1	16182.1	16623.1	11192.2
60°	9444.4	9471.7	10387.2	11569.0	13236.6	14320.5	14213.1	15341.9	16951.8	17601.2	12396.4
62.5°	6551.8	6609.5	7691.8	9577.5	11989.1	14884.9	16916.5	17102.5	18055.0	19065.2	14161.8
65°	3378.5	3303.1	4289.3	6019.4	9038.7	13544.5	19106.9	20339.9	20447.4	21354.9	16647.2
67.5°	2079.7	2113.4	2575.2	3514.8	5344.3	9843.7	18877.6	24295.7	23729.6	24165.8	18954.5
70°	1561.8	1603.5	1920.9	2405.2	3258.2	5628.2	15181.6	25254.5	26045.1	25932.8	19656.9
71°	1358.1	1401.4	1731.7	2188.7	2737.1	4343.8	12790.8	24250.8	26125.2	26106.0	19392.3
72.5°	1157.7	1185.0	1443.1	1853.6	2307.4	3045.0	9609.6	21749.4	25010.8	25650.6	18447.8
75°	909.2	930.0	1045.5	1414.3	1816.7	1869.6	5156.7	16305.6	20542.0	21760.6	15358.0
77.5°	740.8	755.2	814.6	1050.3	1401.4	1324.5	2705.0	10613.3	12869.4	14096.0	9046.7
80°	588.5	604.5	639.8	711.9	1050.3	944.4	1290.8	5378.0	6216.6	6203.8	3611.0
82.5°	457.0	461.8	503.5	522.7	718.4	670.2	699.1	2276.9	2522.2	2605.6	1303.6
85°	288.6	303.1	445.8	400.9	429.7	392.8	344.7	904.4	1114.4	1098.4	521.1
87.5°	88.2	93.0	150.7	170.0	190.8	171.6	126.7	266.2	325.5	352.8	129.9
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°	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5	3580.5
2.5°	3601.4	3583.7	3521.2	3469.9	3421.8	3368.9	3324.0	3311.2	3299.9	3295.1	3293.5
5°	3635.1	3582.1	3458.7	3357.7	3277.5	3203.7	3157.2	3136.4	3115.5	3115.5	3121.9
7.5°	3683.2	3586.9	3396.1	3245.4	3144.4	3075.4	3041.8	3038.6	3043.4	3048.2	3049.8
10°	3736.1	3583.7	3304.7	3117.1	3027.3	2995.3	2996.9	3024.1	3049.8	3069.0	3072.2
12.5°	3787.4	3564.5	3197.3	2996.9	2939.1	2945.6	2990.5	3051.4	3101.1	3128.4	3130.0
15°	3845.1	3534.0	3067.4	2883.0	2863.8	2913.5	2996.9	3089.9	3165.2	3210.1	3214.9
17.5°	3893.2	3482.7	2931.1	2772.4	2796.4	2887.8	3003.3	3123.5	3214.9	3271.1	3280.7
20°	3947.7	3417.0	2790.0	2666.6	2735.5	2859.0	2990.5	3120.3	3214.9	3269.5	3282.3
22.5°	3991.0	3324.0	2655.3	2580.0	2681.0	2823.7	2947.2	3051.4	3128.4	3157.2	3176.5
25°	4008.7	3206.9	2528.7	2509.4	2637.7	2766.0	2849.4	2908.7	2932.7	2929.5	2937.5
27.5°	3999.0	3072.2	2419.6	2453.3	2583.2	2676.2	2717.9	2713.1	2669.8	2629.7	2648.9
30°	3959.0	2911.9	2328.2	2395.6	2512.6	2563.9	2557.5	2495.0	2413.2	2337.8	2342.7
32.5°	3886.8	2738.7	2243.2	2329.8	2413.2	2435.7	2392.4	2310.6	2193.5	2095.7	2081.3
35°	3825.9	2573.6	2167.9	2254.5	2313.8	2302.6	2260.9	2155.1	2049.2	1962.6	1948.2
37.5°	3816.2	2432.5	2095.7	2169.5	2203.2	2187.1	2135.8	2046.0	2007.5	1941.8	1933.8
40°	3867.6	2333.0	2022.0	2079.7	2095.7	2082.9	2026.8	1975.5	2010.7	1994.7	1994.7
42.5°	4007.1	2280.1	1956.2	1989.9	2002.7	2012.3	1972.3	1929.0	1972.3	1898.5	1874.4
45°	4228.3	2281.7	1896.9	1901.7	1940.2	1973.9	1946.6	1882.5	1860.0	1712.5	1683.6
47.5°	4553.8	2336.2	1848.8	1818.3	1887.3	1943.4	1904.9	1811.9	1712.5	1614.7	1597.0
50°	4933.9	2434.1	1805.5	1731.7	1816.7	1904.9	1876.1	1767.0	1664.4	1605.1	1593.8
52.5°	5355.6	2557.5	1752.6	1635.5	1730.1	1887.3	1882.5	1760.6	1619.5	1579.4	1569.8
55°	5876.7	2679.4	1686.8	1523.3	1653.2	1872.8	1864.8	1707.7	1609.9	1581.0	1577.8
57.5°	6482.8	2855.8	1592.2	1409.4	1565.0	1813.5	1795.9	1675.6	1577.8	1557.0	1555.4
60°	7459.3	3130.0	1457.5	1305.2	1475.2	1709.3	1731.7	1621.1	1526.5	1521.7	1520.1
62.5°	8743.7	3514.8	1318.0	1197.8	1371.0	1574.6	1638.7	1547.3	1472.0	1496.0	1499.2
65°	10517.1	3838.7	1173.7	1106.4	1255.5	1444.7	1550.5	1478.4	1411.0	1457.5	1457.5
67.5°	11673.2	3845.1	1042.3	1011.8	1138.5	1335.7	1457.5	1396.6	1332.5	1411.0	1414.3
70°	11432.7	3368.9	933.2	912.4	1024.6	1218.6	1354.9	1306.8	1233.1	1303.6	1278.0
71°	11044.7	3104.3	889.9	873.9	979.7	1162.5	1306.8	1266.7	1193.0	1239.5	1225.0
72.5°	10425.7	2695.4	819.4	822.6	912.4	1092.0	1239.5	1197.8	1124.0	1149.7	1144.9
75°	8812.6	2353.9	700.7	715.1	784.1	971.7	1104.8	1072.7	997.4	997.4	992.5
77.5°	5509.5	1645.2	582.1	590.1	665.4	832.2	949.3	922.0	849.8	825.8	819.4
80°	2055.6	849.8	455.4	465.0	511.5	655.8	785.7	760.0	686.3	659.0	633.4
82.5°	777.7	426.5	335.1	327.1	376.8	500.3	615.7	585.3	527.5	461.8	442.6
85°	293.4	211.7	205.2	198.8	221.3	296.6	381.6	375.2	314.3	267.8	263.0
87.5°	77.0	68.9	80.2	59.3	62.5	56.1	57.7	24.1	11.2	4.8	3.2
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)