

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: P455782

Luminaire Tested: **GALN-SA7A-727-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455782
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27260 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

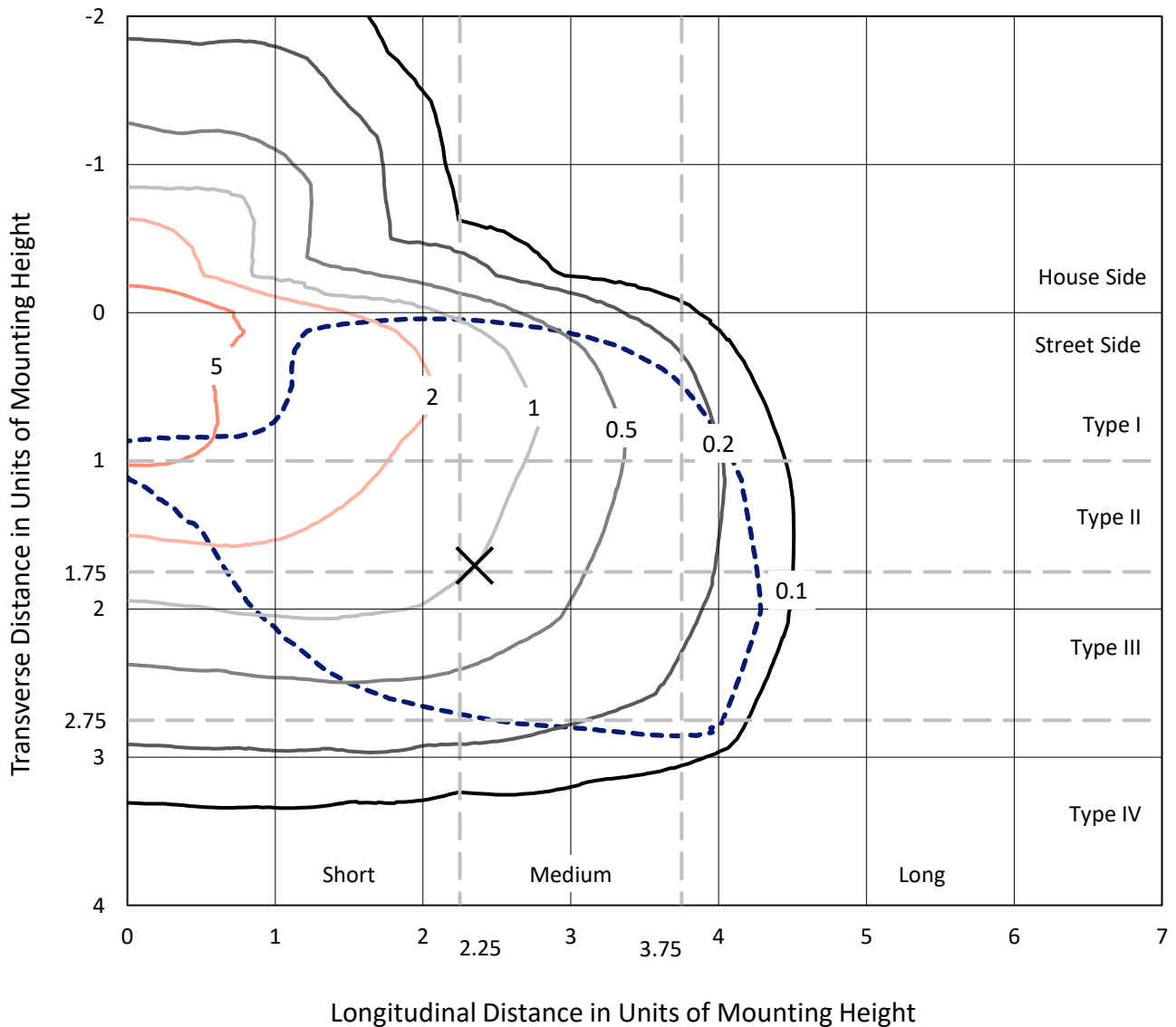
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

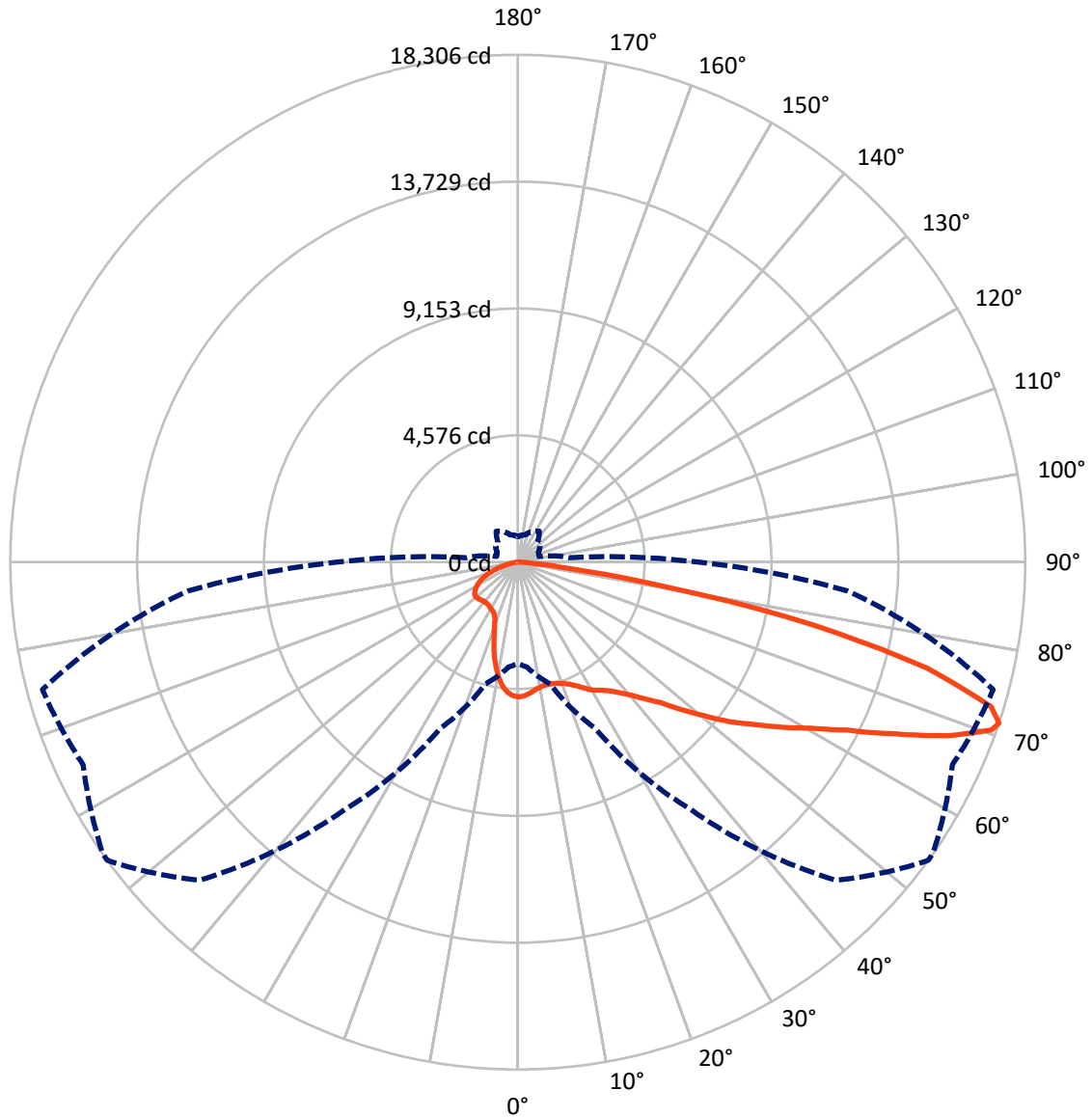
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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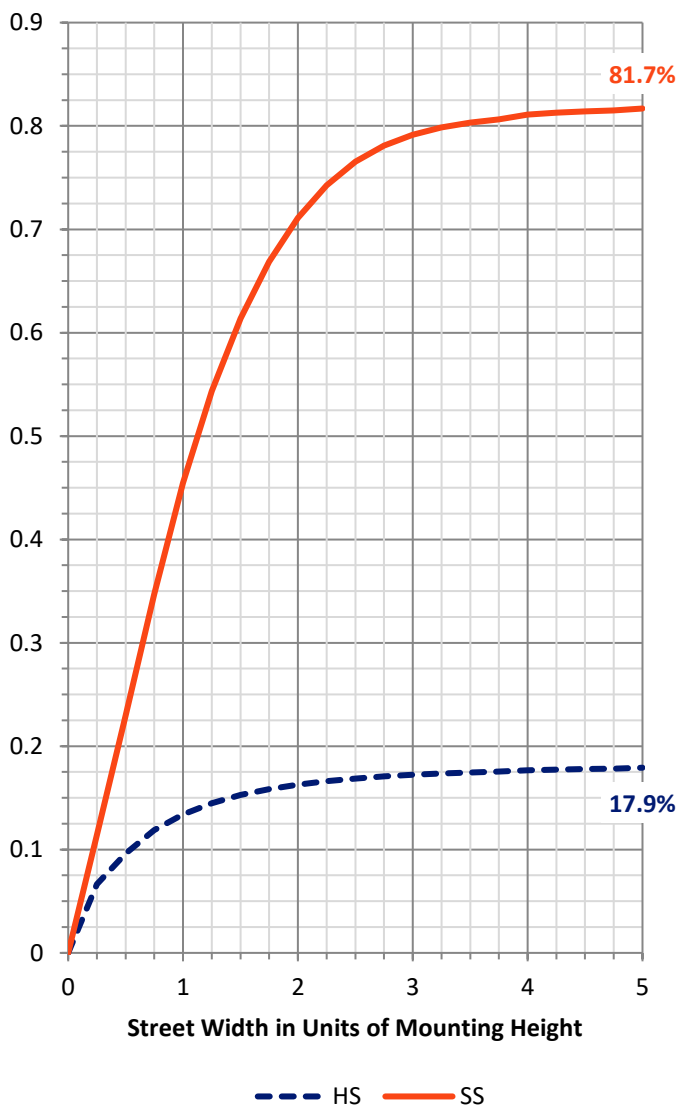
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4921.6	0.0	4921.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	22338.4	0.0	22338.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	27260.0	0.0	27260.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.4	1.6
10°-20°	1144.4	4.2
20°-30°	1905.5	7.0
30°-40°	2817.7	10.3
40°-50°	3968.8	14.6
50°-60°	5314.4	19.5
60°-70°	6698.4	24.6
70°-80°	4575.0	16.8
80°-90°	402.3	1.5
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°	27260.0	100.0
0°-180°	27260.0	100.0

Coefficient of Utilization



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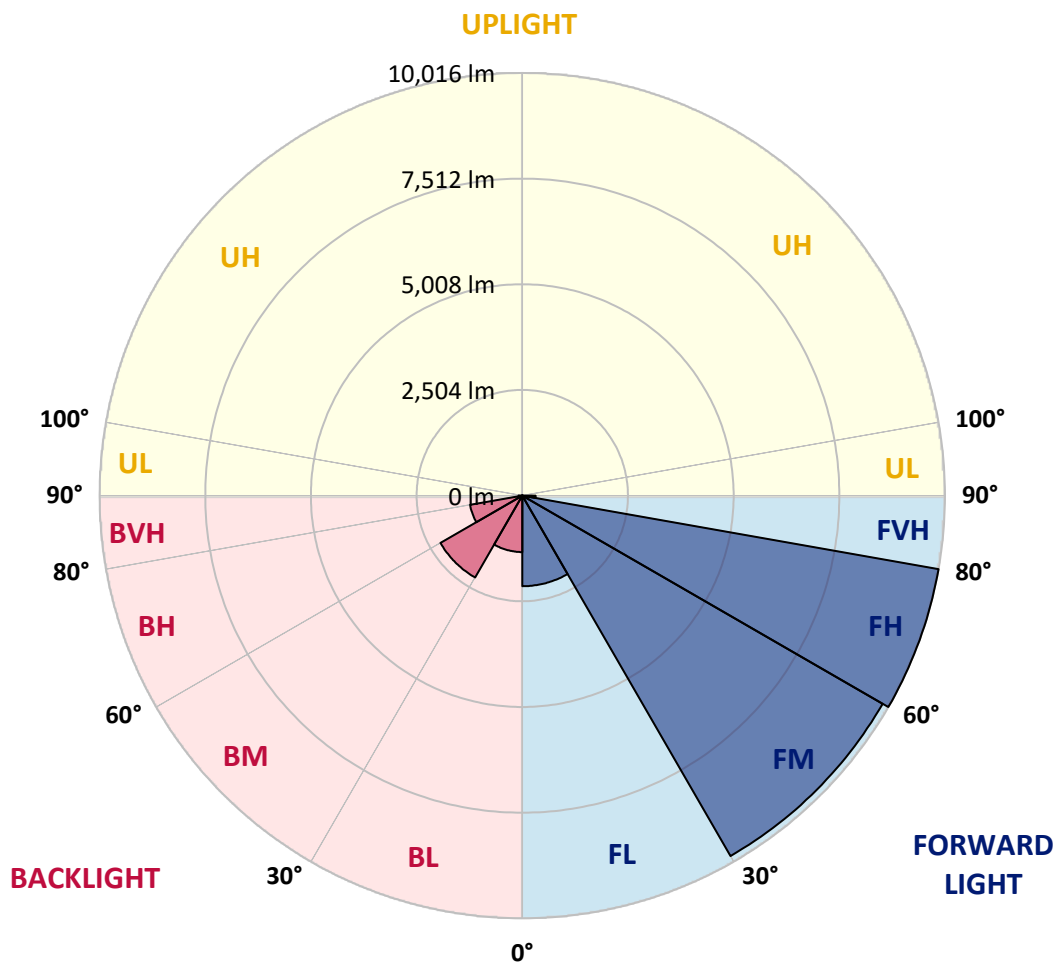
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2145.8	7.9			
FM	(30°-60°)	9861.7	36.2			
FH	(60°-80°)	10016.4	36.7			G4/12000
FVH	(80°-90°)	314.5	1.2			G3/500
BL	(0°-30°)	1337.6	4.9	B3/2500		
BM	(30°-60°)	2239.2	8.2	B2/2500		
BH	(60°-80°)	1257.0	4.6	B3/2500		G3/2500
BVH	(80°-90°)	87.8	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4863.6	4863.6	4863.6	4863.6	4863.6	4863.6	4863.6	4863.6	4863.6	4863.6	4863.6
2.5°	4698.7	4720.8	4726.6	4741.4	4772.3	4797.3	4822.4	4819.4	4854.8	4869.5	4882.7
5°	4489.6	4495.5	4517.6	4547.0	4601.5	4670.7	4738.4	4739.9	4826.8	4896.0	4929.8
7.5°	4336.4	4355.6	4370.3	4401.2	4458.7	4533.8	4641.2	4650.1	4804.7	4941.6	5013.8
10°	4236.3	4258.4	4274.6	4312.9	4370.3	4454.2	4570.6	4586.8	4788.5	5013.8	5140.4
12.5°	4145.0	4167.1	4181.8	4231.9	4307.0	4410.1	4541.1	4560.3	4794.4	5097.7	5278.8
15°	4201.0	4218.6	4212.8	4227.5	4277.5	4395.3	4552.9	4572.0	4816.5	5178.7	5415.8
17.5°	4449.8	4464.5	4416.0	4360.0	4336.4	4423.3	4589.7	4610.3	4860.6	5262.6	5555.7
20°	4816.5	4856.2	4750.2	4625.0	4511.7	4523.4	4666.3	4688.4	4922.5	5346.6	5698.5
22.5°	5293.6	5323.0	5193.4	4987.3	4778.2	4670.7	4781.1	4794.4	5015.3	5455.5	5854.6
25°	5854.6	5872.2	5692.6	5427.5	5125.7	4922.5	4938.7	4962.2	5168.4	5579.2	5993.0
27.5°	6399.4	6455.3	6247.7	5923.8	5526.2	5187.5	5155.1	5169.9	5334.8	5648.4	6088.7
30°	7045.8	7041.4	6822.0	6446.5	5937.0	5476.1	5359.8	5356.9	5424.6	5682.3	6157.9
32.5°	7561.2	7621.5	7406.6	6997.2	6406.7	5775.1	5501.2	5495.3	5493.8	5741.2	6261.0
35°	8147.2	8156.0	7958.7	7546.4	6914.7	6150.5	5698.5	5669.0	5635.2	5867.8	6400.9
37.5°	8671.4	8712.6	8531.5	8069.2	7413.9	6540.7	5969.4	5950.3	5847.2	6087.2	6624.7
40°	9080.8	9111.7	9002.7	8562.4	7905.7	6961.9	6314.0	6278.6	6153.5	6446.5	6923.6
42.5°	9214.8	9278.1	9320.8	9104.3	8471.2	7461.0	6738.0	6693.9	6598.2	6991.3	7268.1
45°	9225.1	9325.2	9550.5	9560.8	9039.5	8058.9	7232.8	7201.9	7194.5	7689.3	7752.6
47.5°	9147.0	9248.6	9627.0	9831.7	9546.1	8662.6	7947.0	7898.4	7902.8	8552.1	8295.9
50°	8958.5	9079.3	9538.7	10005.5	9942.2	9289.8	8700.9	8684.7	8776.0	9537.2	8859.9
52.5°	8603.7	8749.5	9447.4	10114.4	10236.7	9830.2	9557.8	9512.2	9743.4	10606.2	9476.9
55°	7621.5	7840.9	9113.2	10174.8	10516.4	10347.1	10329.4	10411.9	10718.2	11772.4	10155.7
57.5°	7109.1	7274.0	8387.2	10185.1	10869.8	10947.9	11230.6	11251.2	11787.2	13010.8	10922.8
60°	6829.3	6975.1	7989.7	10117.4	11363.1	11691.5	12152.3	12226.0	12831.2	14352.2	11718.0
62.5°	6584.9	6710.1	7751.1	9883.3	11919.7	12794.3	13346.5	13381.9	14016.5	15833.5	12502.8
65°	6009.2	6152.0	7271.1	9649.1	12399.7	14172.6	14930.9	14889.7	15278.4	17111.6	12994.6
67.5°	5233.2	5414.3	6374.3	8840.7	12636.8	15678.9	16715.5	16664.0	16524.1	17949.5	13136.0
70°	4242.2	4339.4	5227.3	7443.4	11690.0	16469.6	18124.7	18070.2	17295.7	18059.9	12467.5
71°	3650.3	3801.9	4551.4	6611.4	10902.2	16228.2	18305.8	18291.1	17297.2	17755.1	11963.9
72.5°	2849.2	2942.0	3604.6	5122.7	9266.3	14855.8	17858.2	17914.1	16921.7	16908.4	10925.8
75°	1802.3	1843.5	2261.7	3015.6	5084.5	10520.8	15244.5	15396.2	15025.1	13839.8	8125.1
77.5°	1046.9	1099.9	1354.7	1777.3	2196.9	5710.3	10908.1	11073.0	10439.9	7620.1	3326.3
80°	609.6	668.5	892.3	1032.2	1008.6	2118.9	5554.2	5835.4	4520.5	1924.5	933.5
82.5°	338.7	378.4	627.3	628.7	537.5	692.1	1747.8	1828.8	1289.9	776.0	381.4
85°	245.9	278.3	404.9	366.6	257.7	297.4	608.1	637.6	521.3	326.9	123.7
87.5°	86.9	123.7	222.3	176.7	70.7	61.8	175.2	142.8	132.5	91.3	28.0
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°	4863.6	4863.6	4863.6	4863.6	4863.6	4863.6	4863.6	4863.6	4863.6	4863.6	4863.6
2.5°	4890.1	4893.0	4878.3	4851.8	4825.3	4791.4	4753.2	4723.7	4710.5	4709.0	4707.5
5°	4943.1	4950.5	4894.5	4812.1	4720.8	4608.8	4513.1	4404.2	4376.2	4332.0	4345.3
7.5°	5028.5	5024.1	4913.7	4738.4	4524.9	4287.8	4087.6	3971.3	3850.5	3816.7	3818.1
10°	5150.7	5122.7	4913.7	4588.2	4231.9	3880.0	3600.2	3423.5	3327.8	3248.3	3218.8
12.5°	5280.3	5209.6	4866.5	4377.7	3854.9	3423.5	3123.1	2884.6	2822.7	2757.9	2759.4
15°	5404.0	5286.2	4773.8	4081.7	3448.5	2936.1	2644.6	2501.7	2482.6	2490.0	2488.5
17.5°	5515.9	5340.7	4632.4	3751.9	2974.4	2517.9	2363.3	2373.6	2425.2	2462.0	2466.4
20°	5629.3	5373.1	4421.8	3310.1	2526.8	2264.7	2270.6	2351.5	2429.6	2479.6	2487.0
22.5°	5736.8	5387.8	4174.5	2883.1	2202.8	2157.2	2244.1	2330.9	2407.5	2456.1	2463.5
25°	5807.4	5353.9	3824.0	2436.9	2043.8	2118.9	2210.2	2283.8	2348.6	2398.7	2410.4
27.5°	5826.6	5245.0	3389.6	2076.2	1970.2	2082.1	2166.0	2220.5	2270.6	2317.7	2326.5
30°	5816.3	5084.5	2912.6	1864.2	1927.5	2039.4	2104.2	2143.9	2204.3	2241.1	2248.5
32.5°	5800.1	4897.5	2414.9	1750.8	1892.1	1999.6	2037.9	2073.2	2071.8	2057.0	2067.4
35°	5806.0	4673.6	2011.4	1683.0	1861.2	1970.2	2002.6	1958.4	1831.8	1825.9	1820.0
37.5°	5836.9	4452.8	1718.4	1635.9	1845.0	1965.8	1983.4	1780.2	1668.3	1616.8	1603.5
40°	5916.4	4195.1	1525.5	1600.6	1843.5	1999.6	1896.5	1690.4	1475.4	1375.3	1367.9
42.5°	6022.4	3941.8	1407.7	1578.5	1861.2	2051.2	1861.2	1563.8	1329.6	1270.7	1261.9
45°	6180.0	3651.7	1342.9	1568.2	1887.7	2070.3	1849.4	1471.0	1270.7	1223.6	1223.6
47.5°	6358.2	3374.9	1307.6	1560.8	1921.6	2057.0	1744.9	1441.6	1242.8	1248.7	1276.6
50°	6534.8	3134.9	1281.1	1544.6	1951.0	2049.7	1702.2	1440.1	1250.1	1325.2	1375.3
52.5°	6739.5	2965.6	1248.7	1518.1	1951.0	2002.6	1688.9	1469.5	1270.7	1292.8	1314.9
55°	6986.9	2912.6	1207.4	1460.7	1915.7	1884.8	1681.6	1512.2	1285.5	1233.9	1242.8
57.5°	7313.8	2998.0	1167.7	1388.5	1834.7	1762.6	1678.6	1524.0	1251.6	1208.9	1200.1
60°	7693.7	3167.3	1155.9	1314.9	1724.3	1658.0	1661.0	1490.1	1204.5	1160.3	1167.7
62.5°	7960.2	3268.9	1148.5	1259.0	1603.5	1543.2	1618.3	1448.9	1183.9	1145.6	1152.9
65°	7960.2	3145.2	1080.8	1173.6	1447.4	1404.7	1566.7	1397.4	1157.4	1113.2	1105.8
67.5°	7658.3	2784.5	977.7	1045.5	1275.2	1247.2	1494.6	1335.5	1117.6	1083.7	1066.1
70°	6872.0	2111.5	848.1	895.3	1057.2	1082.3	1401.8	1251.6	1051.3	1010.1	983.6
71°	6526.0	1839.1	793.7	818.7	973.3	1010.1	1357.6	1216.3	1021.9	963.0	915.9
72.5°	5859.0	1549.0	711.2	721.5	831.9	898.2	1264.9	1148.5	965.9	882.0	829.0
75°	4451.3	1130.9	572.8	566.9	615.5	712.7	1070.5	1023.4	846.7	733.3	702.4
77.5°	1923.1	615.5	428.5	432.9	418.2	540.4	842.3	879.1	725.9	596.4	568.4
80°	583.1	354.9	293.0	298.9	279.8	362.2	593.4	689.1	583.1	463.8	425.5
82.5°	298.9	212.0	200.3	197.3	178.2	204.7	359.3	471.2	416.7	290.1	256.2
85°	129.6	113.4	98.7	95.7	83.9	73.6	128.1	235.6	220.9	162.0	154.6
87.5°	32.4	29.4	19.1	17.7	10.3	1.5	0.0	0.0	0.0	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)