

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: P456480

Luminaire Tested: **GALN-SA7D-727-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44963 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

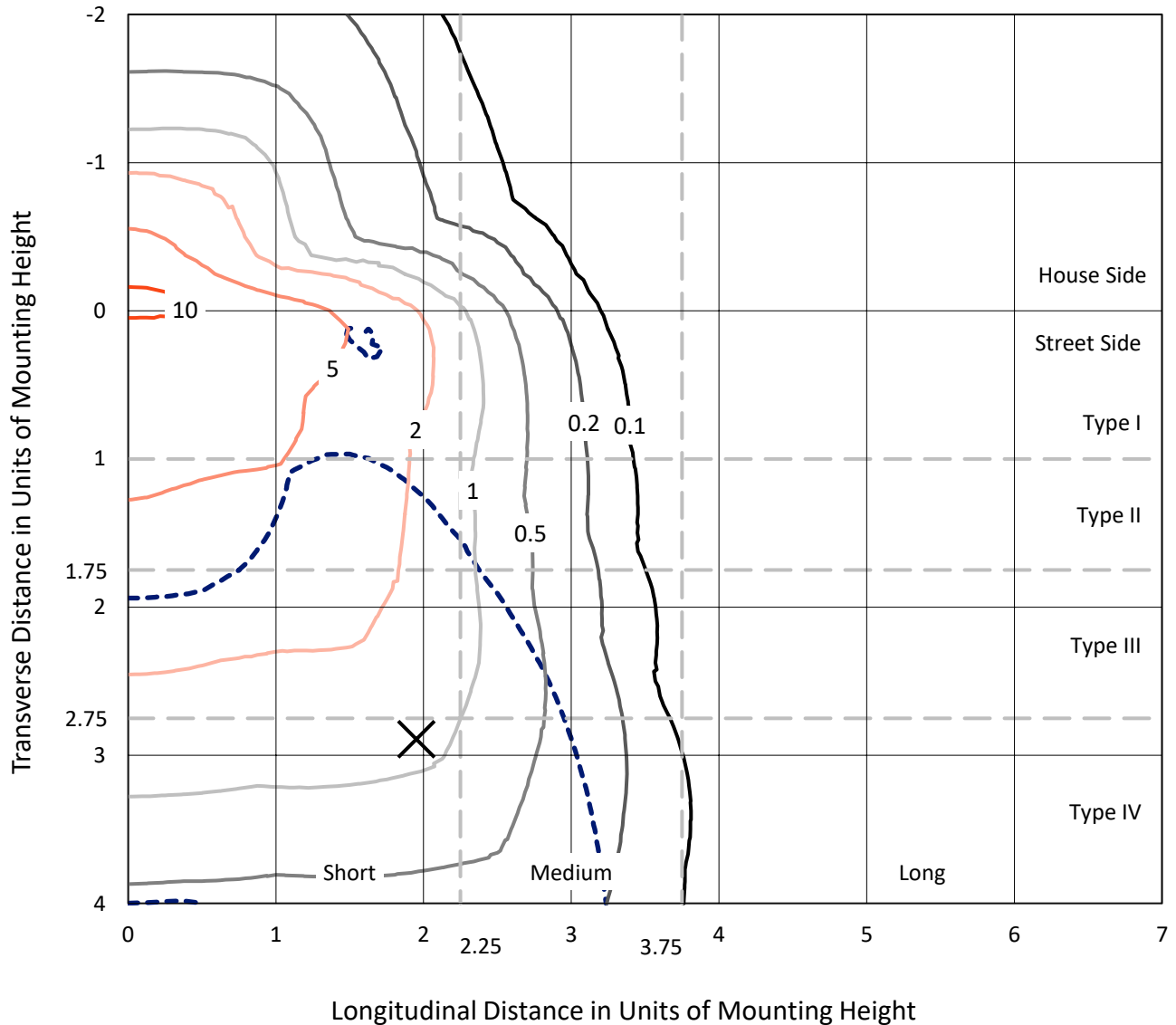
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

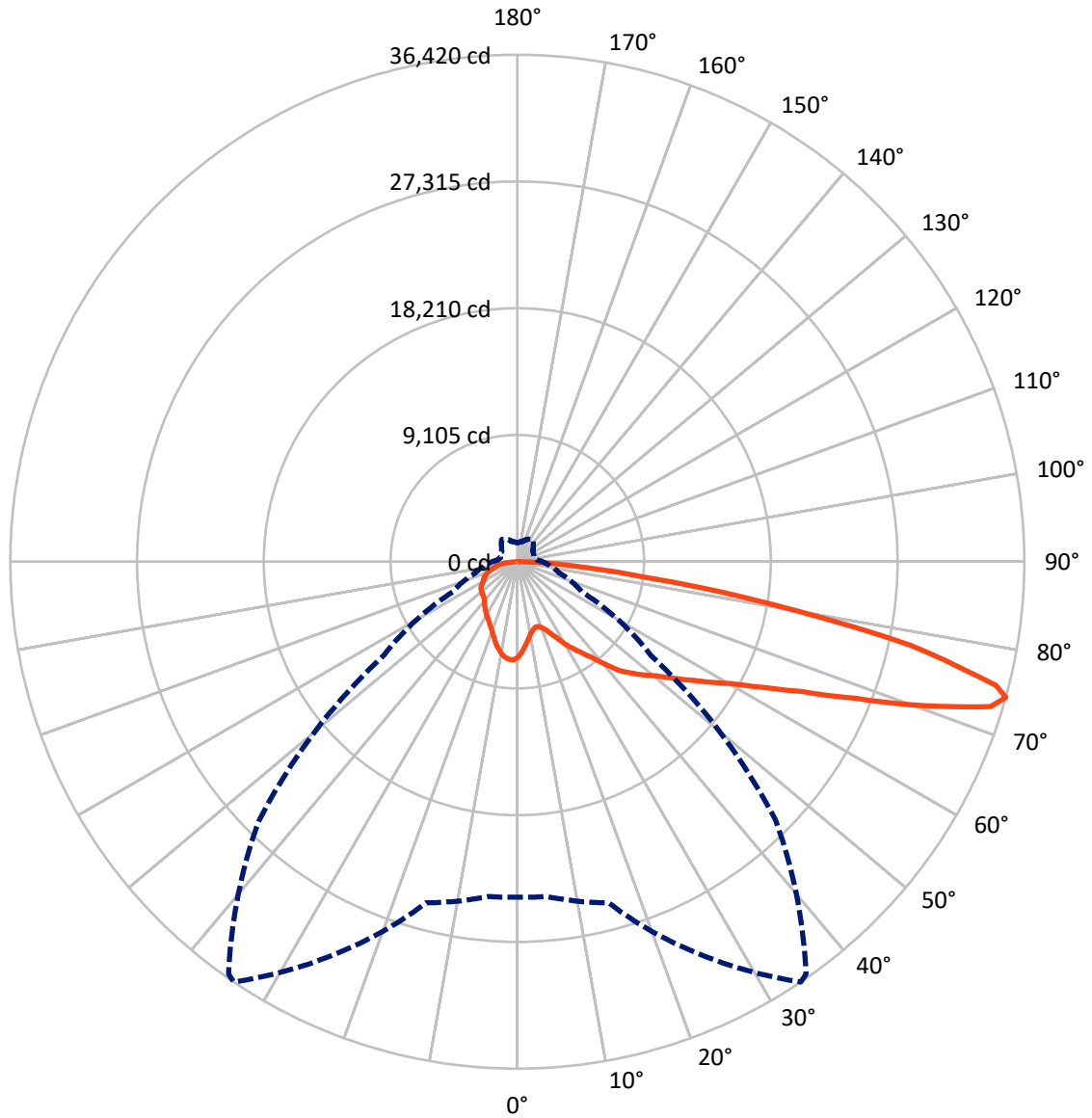
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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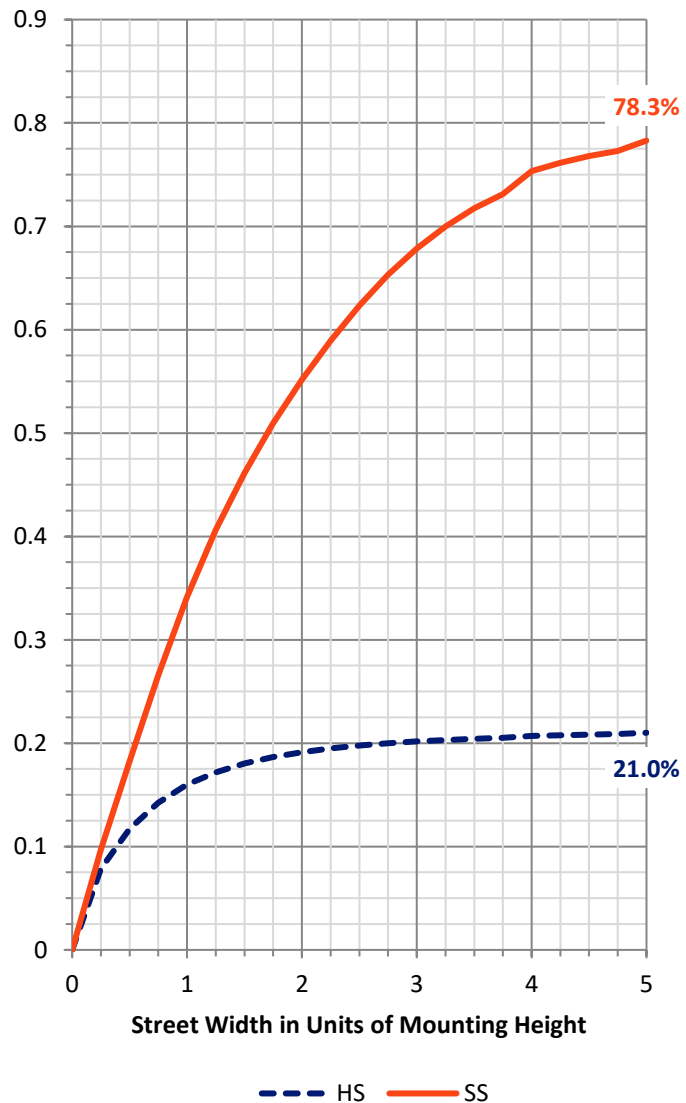
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9568.4	0.0	9568.4
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	35394.6	0.0	35394.6
	% Fixture	78.7	0.0	78.7
Total	Lumens	44963.0	0.0	44963.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	624.3	1.4
10°-20°	1709.1	3.8
20°-30°	2817.9	6.3
30°-40°	4220.8	9.4
40°-50°	6136.0	13.6
50°-60°	8570.5	19.1
60°-70°	10729.8	23.9
70°-80°	8872.7	19.7
80°-90°	1282.0	2.9
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°	44963.0	100.0
0°-180°	44963.0	100.0

Coefficient of Utilization



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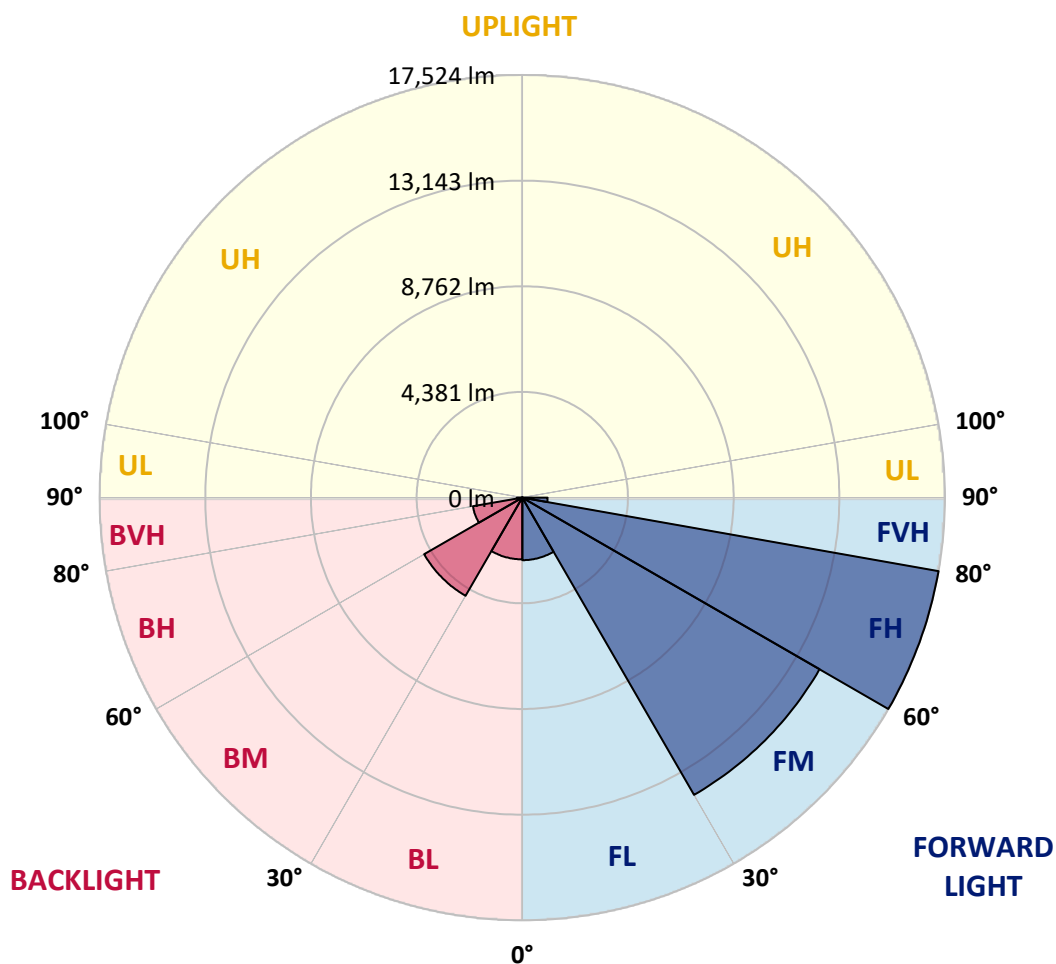
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2591.9	5.8			
FM (30°-60°)	14228.2	31.6			
FH (60°-80°)	17524.2	39.0			G5
FVH (80°-90°)	1050.3	2.3			G5
BL (0°-30°)	2559.4	5.7	B4/5000		
BM (30°-60°)	4699.1	10.5	B3/5000		
BH (60°-80°)	2078.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	231.7	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	6865.0	6865.0	6865.0	6865.0	6865.0	6865.0	6865.0	6865.0	6865.0	6865.0	6865.0
2.5°	6344.4	6376.7	6394.2	6456.5	6471.4	6491.3	6543.6	6613.4	6703.1	6782.8	6852.5
5°	5816.3	5866.1	5896.0	5950.8	6057.9	6067.9	6207.4	6366.8	6548.6	6718.0	6857.5
7.5°	5315.6	5370.4	5395.3	5495.0	5636.9	5659.4	5863.6	6115.2	6419.1	6675.7	6889.9
10°	4939.5	4966.9	5021.7	5096.4	5265.8	5280.7	5547.3	5883.5	6277.1	6655.7	6944.7
12.5°	4735.2	4750.2	4762.6	4842.3	5009.2	5031.6	5310.6	5691.7	6165.0	6670.7	7034.3
15°	4765.1	4770.1	4715.3	4730.2	4864.8	4897.1	5173.6	5564.7	6095.3	6708.0	7168.9
17.5°	5016.7	4999.3	4864.8	4795.0	4889.7	4904.6	5146.2	5514.9	6062.9	6777.8	7308.3
20°	5412.8	5387.8	5156.2	5001.8	5056.6	5069.0	5235.9	5552.2	6095.3	6892.4	7525.1
22.5°	5906.0	5896.0	5544.8	5358.0	5355.5	5355.5	5442.6	5686.8	6192.4	7049.3	7751.7
25°	6595.9	6543.6	6085.3	5843.7	5776.4	5771.4	5761.5	5908.4	6317.0	7216.2	8020.7
27.5°	7303.4	7213.7	6805.2	6434.0	6289.6	6272.1	6207.4	6222.3	6476.4	7405.5	8327.1
30°	7938.5	7881.3	7497.7	7086.7	6914.8	6874.9	6695.6	6613.4	6742.9	7746.7	8815.3
32.5°	8424.3	8389.4	8090.5	7716.9	7462.8	7455.3	7193.8	7126.5	7158.9	8160.2	9373.3
35°	8817.8	8830.3	8678.3	8354.5	8063.1	8020.7	7846.4	7761.7	7667.0	8758.1	10075.7
37.5°	9355.9	9383.3	9373.3	9094.3	8738.1	8748.1	8708.2	8568.7	8317.2	9425.6	10855.4
40°	9948.7	9968.6	9966.1	9859.0	9672.2	9682.2	9667.2	9507.8	9131.7	10275.0	11722.2
42.5°	10768.2	10673.6	10427.0	10534.1	10643.7	10691.0	10793.1	10641.2	10125.6	11181.7	12536.8
45°	11684.9	11505.5	10947.6	10997.4	11403.4	11493.1	12056.0	11846.8	11204.1	12222.9	13495.8
47.5°	12262.8	12085.9	11615.1	11605.2	12143.2	12230.4	13226.8	13149.5	12185.6	13346.3	14666.5
50°	12778.4	12753.5	12222.9	12350.0	12875.5	13005.1	14502.1	14429.9	13164.5	14671.5	15941.9
52.5°	13543.1	13341.3	12917.9	13179.4	13874.4	14043.8	15767.5	15555.8	14063.7	15842.2	17179.8
55°	13886.8	13839.5	13814.6	14041.3	14995.3	15117.4	16998.0	16512.3	14830.9	16833.6	18121.4
57.5°	14806.0	14718.8	14965.4	15119.9	16315.5	16502.3	18283.3	17511.1	15503.5	17620.7	18579.7
60°	15996.7	15949.3	16176.0	16455.0	17790.1	18074.1	19748.0	18363.0	16044.0	18016.8	18328.2
62.5°	17775.2	17770.2	17727.8	18325.7	19880.0	20141.5	21429.3	19192.5	16128.7	17720.4	17027.9
65°	20325.9	20236.2	19867.5	20520.2	22480.5	22786.9	23180.5	19655.8	15618.0	16198.4	14337.7
67.5°	22993.6	22988.7	22689.7	23536.7	26214.4	26530.7	25370.0	19553.7	14200.7	13122.1	10182.9
70°	25205.6	25098.5	25479.6	27736.3	30984.5	31350.7	27285.5	18350.6	11311.2	8665.9	6050.4
72.5°	25736.1	25741.1	26533.2	30974.5	35565.3	35622.6	27975.5	14873.3	7569.9	4780.1	3026.5
74°	24102.1	24144.4	25372.5	31136.4	36419.7	36160.6	26211.9	11689.9	5118.8	3121.1	2182.0
75°	21999.8	21733.2	23509.3	30057.9	35532.9	35253.9	24146.9	9380.8	3905.8	2493.4	1910.5
77.5°	11762.1	12033.6	14773.6	22430.7	28867.2	28545.9	16372.8	4498.6	2109.8	1736.2	1375.0
80°	4187.2	4618.2	6491.3	11737.2	18507.5	18607.1	7814.0	2062.5	1484.6	1280.3	971.5
82.5°	1708.8	1756.1	2787.3	5208.5	9398.2	9487.9	3190.9	1225.5	1061.1	881.8	580.4
85°	667.6	687.5	1233.0	2341.5	4010.4	4271.9	1103.5	647.6	652.6	505.7	296.4
87.5°	224.2	254.1	505.7	779.7	1362.5	1335.1	321.3	191.8	234.1	219.2	92.2
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°	6865.0	6865.0	6865.0	6865.0	6865.0	6865.0	6865.0	6865.0	6865.0	6865.0	6865.0
2.5°	6887.4	6934.7	6967.1	7002.0	7034.3	7044.3	7036.8	7059.3	7061.7	7064.2	7066.7
5°	6927.2	6992.0	7054.3	7089.1	7104.1	7091.6	7049.3	7026.9	7006.9	6992.0	6997.0
7.5°	6982.0	7074.2	7131.5	7146.4	7106.6	7049.3	6944.7	6862.5	6810.2	6775.3	6772.8
10°	7066.7	7156.4	7203.7	7161.4	7051.8	6912.3	6747.9	6593.5	6476.4	6441.5	6439.0
12.5°	7173.8	7276.0	7273.5	7148.9	6957.1	6708.0	6441.5	6262.2	6102.7	6023.0	6055.4
15°	7313.3	7390.5	7318.3	7094.1	6790.2	6449.0	6120.2	5876.1	5696.7	5612.0	5617.0
17.5°	7475.2	7542.5	7350.7	6997.0	6556.1	6117.7	5736.6	5504.9	5362.9	5300.7	5295.7
20°	7677.0	7696.9	7350.7	6827.6	6254.7	5731.6	5367.9	5206.0	5126.3	5093.9	5103.9
22.5°	7893.7	7853.9	7310.8	6588.5	5858.6	5328.1	5084.0	5011.7	4971.9	4966.9	4971.9
25°	8137.8	8025.7	7228.6	6264.7	5445.1	4979.3	4837.4	4849.8	4857.3	4857.3	4874.7
27.5°	8436.7	8212.5	7091.6	5856.1	4961.9	4655.5	4615.7	4702.8	4742.7	4750.2	4762.6
30°	8830.3	8416.8	6865.0	5345.5	4550.9	4364.1	4433.8	4550.9	4595.7	4623.1	4618.2
32.5°	9298.6	8641.0	6558.6	4834.9	4219.6	4159.8	4244.5	4364.1	4413.9	4428.8	4408.9
35°	9849.1	8895.1	6155.1	4356.6	3930.7	3965.5	4065.2	4102.5	4147.4	4147.4	4157.3
37.5°	10441.9	9099.3	5661.8	3918.2	3706.5	3833.5	3905.8	3870.9	3851.0	3826.0	3838.5
40°	11044.7	9251.3	5021.7	3484.8	3482.3	3696.5	3716.4	3616.8	3537.1	3512.2	3499.7
42.5°	11570.3	9345.9	4443.8	3148.5	3270.6	3562.0	3577.0	3417.5	3290.5	3215.8	3190.9
45°	12190.5	9455.5	3878.4	2869.5	3073.8	3454.9	3492.3	3278.0	3091.2	2934.3	2894.4
47.5°	13039.9	9704.6	3432.5	2652.8	2931.8	3387.6	3440.0	3163.5	2916.9	2712.6	2680.2
50°	13998.9	10045.9	3086.2	2505.9	2822.2	3327.9	3392.6	3046.4	2755.0	2528.3	2503.4
52.5°	14878.2	10230.2	2787.3	2373.8	2715.1	3218.3	3330.4	2961.7	2595.5	2344.0	2321.5
55°	15359.0	9931.3	2493.4	2244.3	2568.1	3076.3	3243.2	2844.6	2441.1	2246.8	2214.4
57.5°	15423.7	9313.5	2226.9	2104.8	2413.7	2901.9	3081.3	2702.6	2341.5	2179.6	2152.2
60°	14923.1	8391.9	2020.1	1990.2	2256.8	2705.1	2899.4	2578.1	2239.3	2104.8	2077.4
62.5°	13677.6	7390.5	1875.7	1885.6	2097.4	2498.4	2764.9	2458.5	2142.2	2022.6	1997.7
65°	11535.4	6100.3	1736.2	1778.5	1955.4	2336.5	2642.9	2358.9	2045.0	1960.3	1937.9
67.5°	8013.3	4403.9	1621.6	1666.4	1820.9	2172.1	2500.9	2251.8	1935.4	1890.6	1855.7
70°	4436.3	2710.1	1487.1	1539.4	1681.4	1987.7	2341.5	2089.9	1776.0	1756.1	1706.3
72.5°	2331.5	1726.2	1335.1	1392.4	1492.1	1751.1	2097.4	1913.0	1619.1	1534.4	1469.6
74°	1820.9	1414.8	1233.0	1292.8	1360.0	1611.6	1952.9	1786.0	1507.0	1407.4	1357.5
75°	1586.7	1260.4	1145.8	1223.0	1282.8	1517.0	1840.8	1696.3	1444.7	1350.1	1305.2
77.5°	1120.9	944.1	936.6	1028.7	1061.1	1330.1	1658.9	1544.4	1287.8	1188.2	1145.8
80°	787.1	707.4	742.3	799.6	844.4	1175.7	1539.4	1335.1	1056.1	939.1	924.1
82.5°	513.1	463.3	530.6	582.9	597.8	866.8	1243.0	1013.8	769.7	625.2	580.4
85°	236.6	231.7	303.9	296.4	293.9	423.5	737.3	592.8	443.4	331.3	311.4
87.5°	59.8	57.3	74.7	62.3	74.7	64.8	67.3	17.4	2.5	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)