

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: P457661

Luminaire Tested: **GALN-SA9A-730-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457661
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-SA9A-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 37971 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

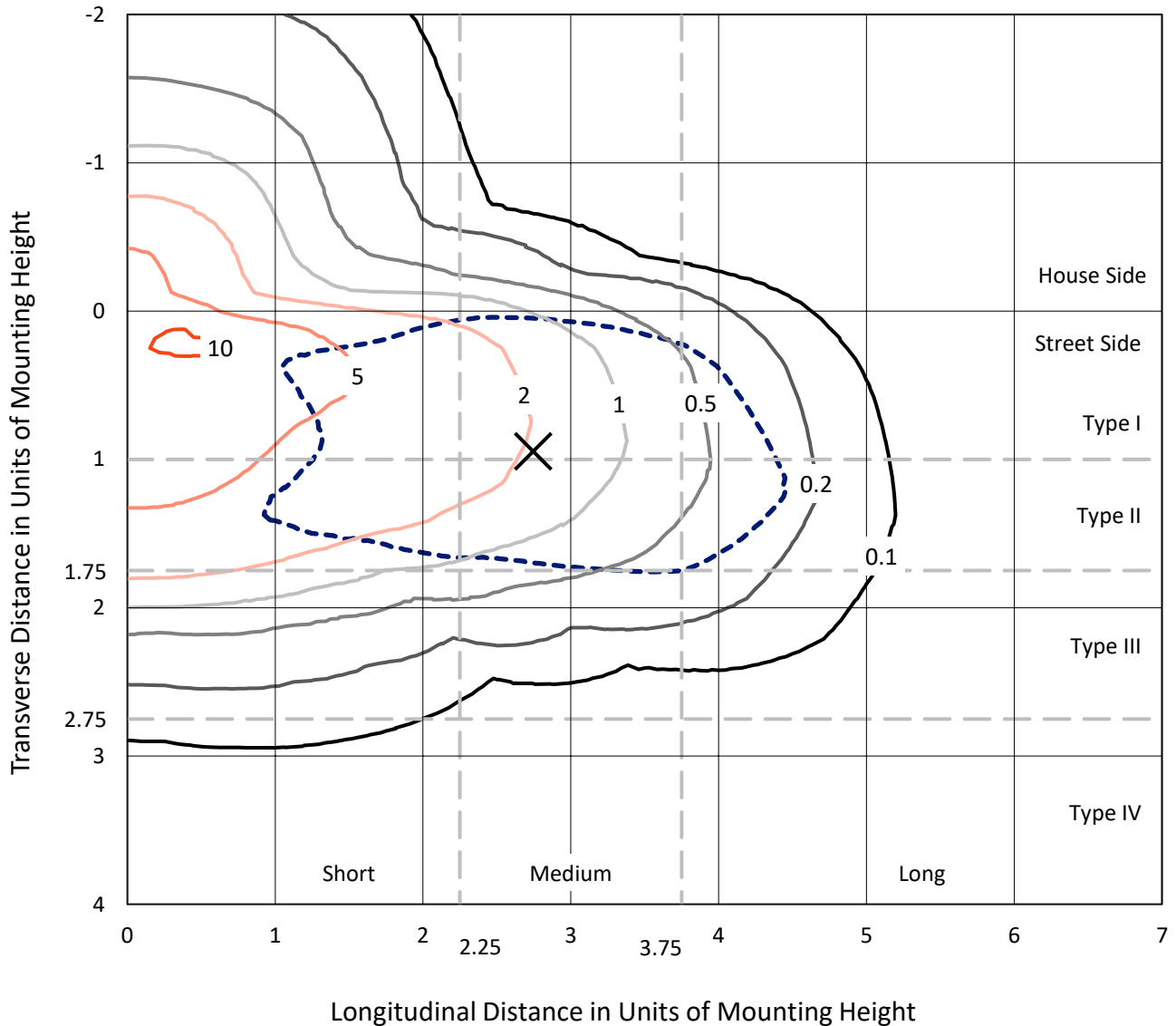
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

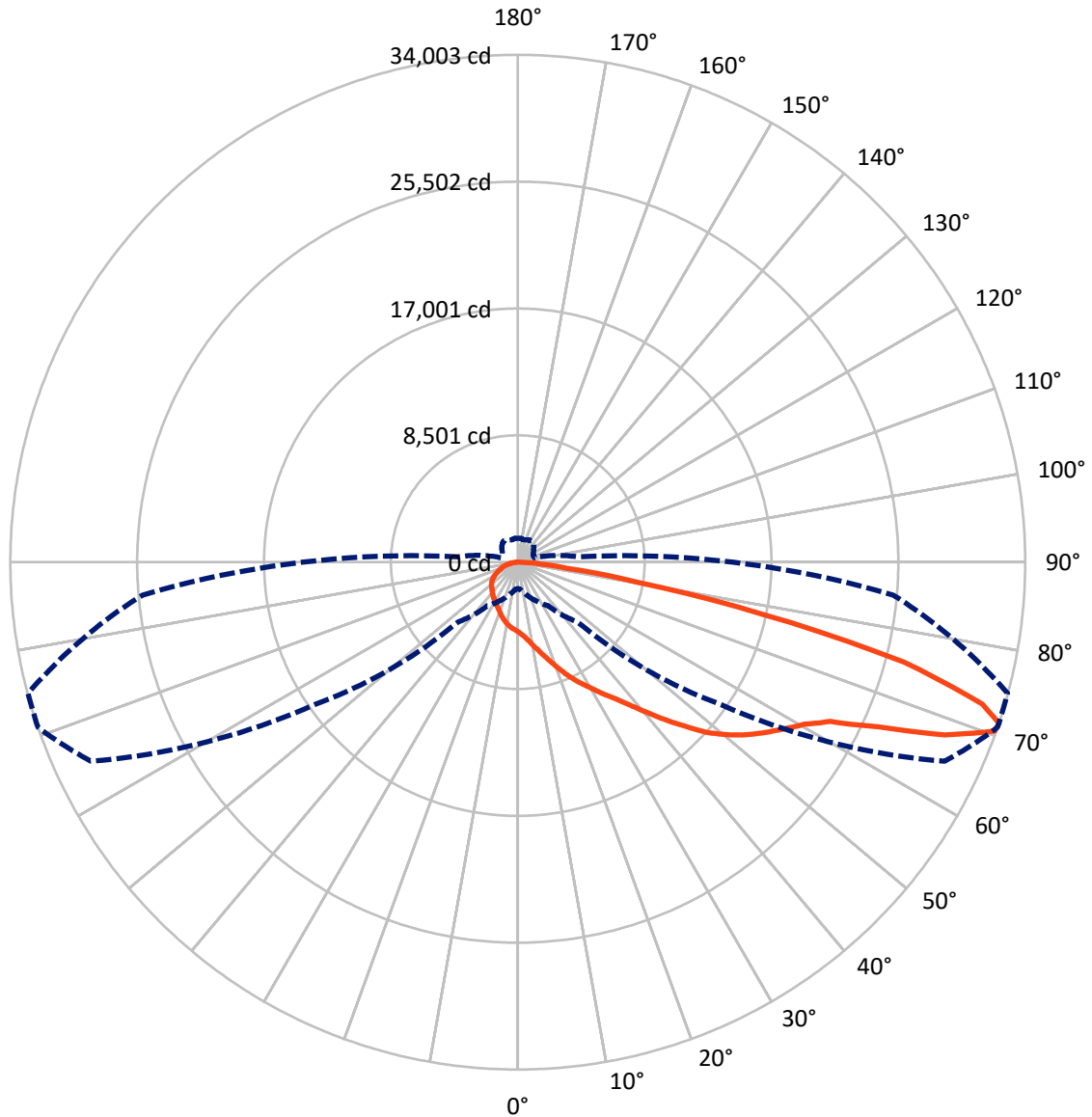
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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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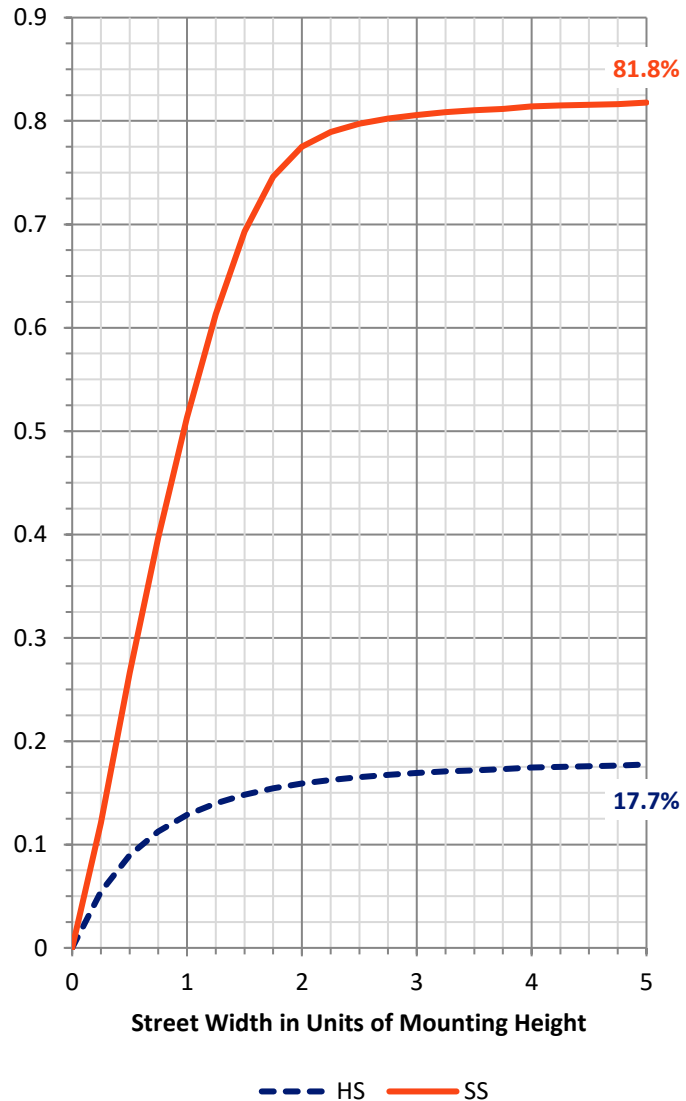
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6829.0	0.0	6829.0
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	31142.0	0.0	31142.0
	% Fixture	82.0	0.0	82.0
Total	Lumens	37971.0	0.0	37971.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.9	1.2
10°-20°	1520.2	4.0
20°-30°	2656.7	7.0
30°-40°	3951.5	10.4
40°-50°	5822.0	15.3
50°-60°	8150.9	21.5
60°-70°	9116.6	24.0
70°-80°	5568.8	14.7
80°-90°	716.4	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°	37971.0	100.0
0°-180°	37971.0	100.0

Coefficient of Utilization



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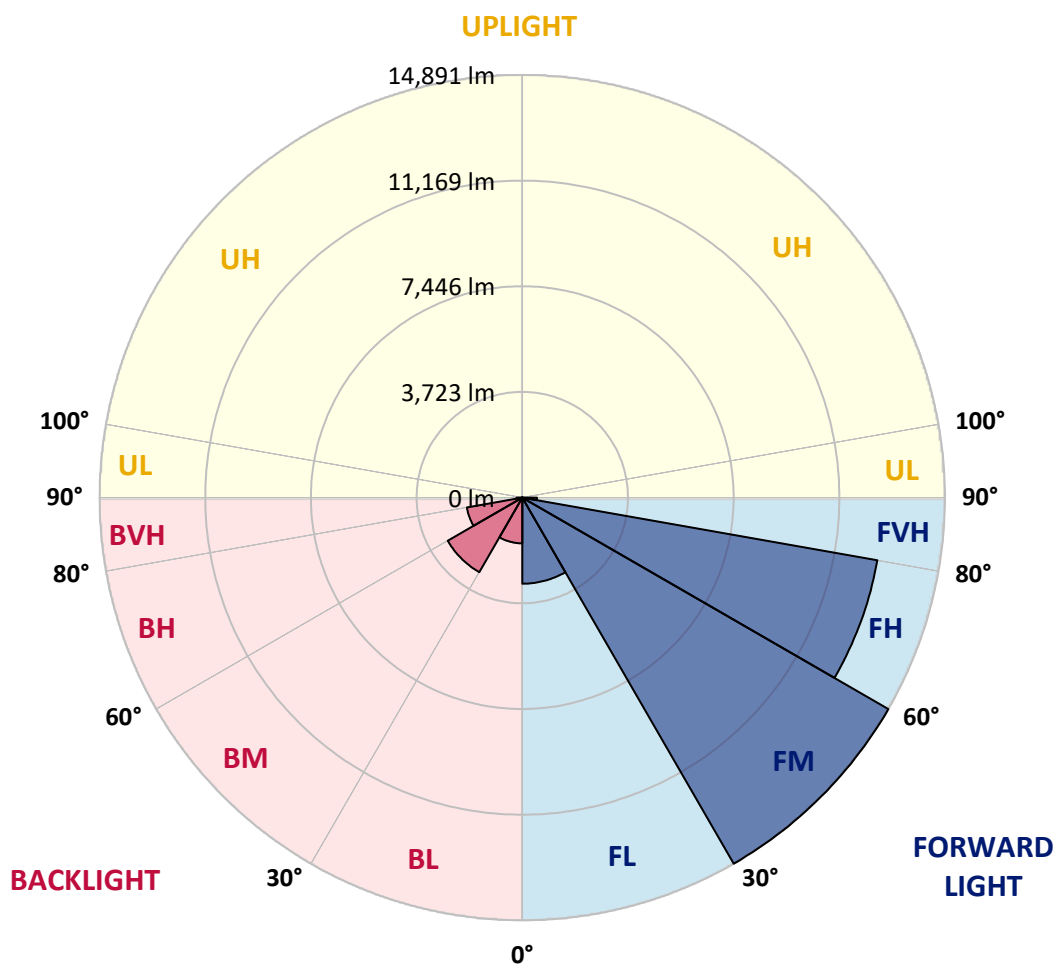
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3033.9	8.0			
FM	(30°-60°)	14891.5	39.2			
FH	(60°-80°)	12701.2	33.4			G5
FVH	(80°-90°)	515.4	1.4			G4/750
BL	(0°-30°)	1610.9	4.2	B3/2500		
BM	(30°-60°)	3033.0	8.0	B3/5000		
BH	(60°-80°)	1984.1	5.2	B3/2500		G3/2500
BVH	(80°-90°)	200.9	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-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4660.2	4660.2	4660.2	4660.2	4660.2	4660.2	4660.2	4660.2	4660.2	4660.2	4660.2
2.5°	5173.6	5148.5	5150.6	5115.1	5069.2	5019.1	4948.2	4885.6	4835.5	4806.3	4720.7
5°	5732.9	5707.8	5676.5	5599.3	5565.9	5442.8	5286.3	5144.4	5035.8	4975.3	4804.2
7.5°	6185.8	6179.5	6171.2	6127.3	6041.8	5870.6	5737.1	5490.8	5330.1	5215.3	4923.1
10°	6465.4	6475.9	6482.1	6490.5	6455.0	6365.2	6181.6	5870.6	5666.1	5520.0	5077.6
12.5°	6607.3	6617.8	6653.2	6730.5	6778.5	6768.0	6617.8	6313.1	6031.3	5839.3	5242.5
15°	6695.0	6711.7	6774.3	6876.5	7037.2	7139.5	7066.5	6784.7	6475.9	6248.4	5438.6
17.5°	6791.0	6809.8	6878.6	7024.7	7235.5	7456.7	7536.0	7293.9	6957.9	6686.6	5657.8
20°	6845.2	6870.3	6968.4	7160.4	7406.6	7728.0	7991.0	7863.7	7496.4	7195.9	5910.3
22.5°	6932.9	6953.8	7037.2	7241.8	7536.0	7938.8	8445.9	8418.8	8095.3	7707.2	6187.8
25°	7170.8	7204.2	7245.9	7369.1	7652.9	8153.8	8823.7	9011.5	8675.5	8241.4	6442.5
27.5°	7619.5	7646.6	7644.6	7661.2	7821.9	8339.5	9151.3	9597.9	9251.5	8781.9	6688.7
30°	8130.8	8141.2	8149.6	8112.0	8147.5	8529.4	9451.9	10178.1	9831.7	9337.1	6903.7
32.5°	8752.7	8773.6	8702.6	8606.6	8577.4	8811.2	9700.2	10758.3	10518.3	9900.6	7116.5
35°	9487.3	9541.6	9397.6	9228.6	9109.6	9216.0	10034.1	11351.0	11221.6	10620.6	7398.3
37.5°	10326.3	10393.1	10259.5	9927.7	9758.6	9787.9	10470.3	12083.5	12110.7	11440.7	7817.8
40°	11012.9	11100.6	11104.7	10635.2	10378.5	10411.9	11023.3	12872.4	13183.4	12455.0	8312.4
42.5°	11465.8	11551.3	11641.1	11365.6	11096.4	11286.3	11668.2	13728.1	14389.6	13686.3	9003.2
45°	11962.5	12039.7	12089.8	11964.6	11814.3	12306.8	12446.7	14638.0	15675.2	15061.6	9758.6
47.5°	12538.5	12624.0	12672.0	12553.1	12496.7	13202.1	13285.6	15487.4	17048.4	16397.3	10593.4
50°	13306.5	13371.2	13346.1	13271.0	13258.5	13888.7	14091.2	16282.5	18181.6	17835.2	11459.5
52.5°	14262.3	14339.5	14366.7	14260.2	14212.2	14379.2	14740.2	17006.7	19212.6	19070.7	12384.0
55°	14840.4	14963.5	15376.8	15543.7	15658.5	15013.6	15439.4	17806.0	20137.1	20372.9	13377.4
57.5°	14099.5	14258.1	15182.7	16017.5	17096.4	16599.7	16430.7	18640.8	21061.6	21635.6	14567.0
60°	12292.2	12327.7	13519.4	15057.4	17227.9	18638.7	18498.9	19968.1	22063.4	22908.6	16134.3
62.5°	8527.3	8602.5	10011.2	12465.4	15604.2	19373.3	22017.5	22259.6	23499.2	24814.0	18432.1
65°	4397.2	4299.1	5582.6	7834.5	11764.2	17628.6	24868.3	26473.1	26613.0	27794.2	21666.9
67.5°	2706.8	2750.6	3351.7	4574.6	6955.9	12811.9	24569.8	31621.7	30885.0	31452.6	24670.0
70°	2032.7	2087.0	2500.2	3130.4	4240.7	7325.2	19759.4	32869.7	33898.6	33752.5	25584.1
71°	1767.7	1824.0	2253.9	2848.7	3562.4	5653.6	16647.7	31563.2	34002.9	33977.9	25239.7
72.5°	1506.8	1542.3	1878.3	2412.5	3003.1	3963.1	12507.2	28307.6	32552.5	33385.2	24010.5
75°	1183.3	1210.4	1360.7	1840.7	2364.5	2433.4	6711.7	21222.3	26736.1	28322.2	19988.9
77.5°	964.2	983.0	1060.2	1367.0	1824.0	1723.8	3520.7	13813.6	16750.0	18346.5	11774.7
80°	765.9	786.8	832.7	926.6	1367.0	1229.2	1680.0	6999.7	8091.2	8074.5	4699.8
82.5°	594.8	601.0	655.3	680.4	935.0	872.4	909.9	2963.5	3282.8	3391.3	1696.7
85°	375.7	394.4	580.2	521.7	559.3	511.3	448.7	1177.0	1450.4	1429.6	678.3
87.5°	114.8	121.0	196.2	221.2	248.3	223.3	164.9	346.4	423.7	459.1	169.0
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°	4660.2	4660.2	4660.2	4660.2	4660.2	4660.2	4660.2	4660.2	4660.2	4660.2	4660.2
2.5°	4687.3	4664.4	4583.0	4516.2	4453.6	4384.7	4326.3	4309.6	4295.0	4288.7	4286.6
5°	4731.1	4662.3	4501.6	4370.1	4265.8	4169.8	4109.2	4082.1	4055.0	4055.0	4063.3
7.5°	4793.8	4668.5	4420.2	4224.0	4092.5	4002.8	3959.0	3954.8	3961.1	3967.3	3969.4
10°	4862.6	4664.4	4301.2	4057.1	3940.2	3898.4	3900.5	3936.0	3969.4	3994.4	3998.6
12.5°	4929.4	4639.3	4161.4	3900.5	3825.4	3833.8	3892.2	3971.5	4036.2	4071.7	4073.8
15°	5004.5	4599.7	3992.4	3752.4	3727.3	3792.0	3900.5	4021.6	4119.7	4178.1	4184.4
17.5°	5067.1	4532.9	3815.0	3608.4	3639.7	3758.6	3908.9	4065.4	4184.4	4257.4	4269.9
20°	5138.1	4447.3	3631.3	3470.6	3560.4	3721.1	3892.2	4061.2	4184.4	4255.3	4272.0
22.5°	5194.5	4326.3	3456.0	3357.9	3489.4	3675.1	3835.8	3971.5	4071.7	4109.2	4134.3
25°	5217.4	4173.9	3291.1	3266.1	3433.1	3600.0	3708.5	3785.8	3817.1	3812.9	3823.3
27.5°	5204.9	3998.6	3149.2	3193.1	3362.1	3483.1	3537.4	3531.1	3474.8	3422.6	3447.7
30°	5152.7	3789.9	3030.3	3117.9	3270.3	3337.1	3328.7	3247.3	3140.9	3042.8	3049.1
32.5°	5058.8	3564.5	2919.7	3032.4	3140.9	3170.1	3113.8	3007.3	2855.0	2727.7	2708.9
35°	4979.5	3349.6	2821.6	2934.3	3011.5	2996.9	2942.6	2804.9	2667.1	2554.4	2535.7
37.5°	4967.0	3165.9	2727.7	2823.7	2867.5	2846.6	2779.8	2663.0	2612.9	2527.3	2516.9
40°	5033.8	3036.5	2631.7	2706.8	2727.7	2711.0	2637.9	2571.1	2617.1	2596.2	2596.2
42.5°	5215.3	2967.7	2546.1	2589.9	2606.6	2619.1	2567.0	2510.6	2567.0	2471.0	2439.7
45°	5503.3	2969.8	2468.9	2475.1	2525.2	2569.1	2533.6	2450.1	2420.9	2228.9	2191.3
47.5°	5927.0	3040.7	2406.3	2366.6	2456.4	2529.4	2479.3	2358.3	2228.9	2101.6	2078.6
50°	6421.6	3168.0	2349.9	2253.9	2364.5	2479.3	2441.7	2299.8	2166.3	2089.1	2074.4
52.5°	6970.5	3328.7	2281.1	2128.7	2251.8	2456.4	2450.1	2291.5	2107.8	2055.7	2043.1
55°	7648.7	3487.3	2195.5	1982.6	2151.7	2437.6	2427.1	2222.6	2095.3	2057.7	2053.6
57.5°	8437.6	3716.9	2072.4	1834.4	2036.9	2360.4	2337.4	2180.9	2053.6	2026.4	2024.4
60°	9708.6	4073.8	1897.1	1698.8	1920.0	2224.7	2253.9	2109.9	1986.8	1980.5	1978.4
62.5°	11380.2	4574.6	1715.5	1559.0	1784.4	2049.4	2132.9	2013.9	1915.8	1947.1	1951.3
65°	13688.4	4996.2	1527.7	1440.0	1634.1	1880.4	2018.1	1924.2	1836.5	1897.1	1897.1
67.5°	15193.1	5004.5	1356.5	1316.9	1481.7	1738.4	1897.1	1817.7	1734.3	1836.5	1840.7
70°	14880.1	4384.7	1214.6	1187.5	1333.6	1586.1	1763.5	1700.9	1604.9	1696.7	1663.3
71°	14375.0	4040.4	1158.3	1137.4	1275.1	1513.0	1700.9	1648.7	1552.7	1613.2	1594.4
72.5°	13569.4	3508.2	1066.4	1070.6	1187.5	1421.2	1613.2	1559.0	1463.0	1496.4	1490.1
75°	11470.0	3063.7	912.0	930.8	1020.5	1264.7	1437.9	1396.2	1298.1	1298.1	1291.8
77.5°	7170.8	2141.2	757.6	768.0	866.1	1083.1	1235.5	1200.0	1106.1	1074.8	1066.4
80°	2675.5	1106.1	592.7	605.2	665.7	853.6	1022.6	989.2	893.2	857.7	824.4
82.5°	1012.2	555.1	436.2	425.7	490.4	651.1	801.4	761.7	686.6	601.0	576.0
85°	381.9	275.5	267.1	258.8	288.0	386.1	496.7	488.3	409.0	348.5	342.3
87.5°	100.2	89.7	104.3	77.2	81.4	73.0	75.1	31.3	14.6	6.3	4.2
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)