

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: P457879

Luminaire Tested: **GALN-SA9B-730-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457879  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-730-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47439 lumens  
Efficiency: N/A  
Efficacy: 130.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

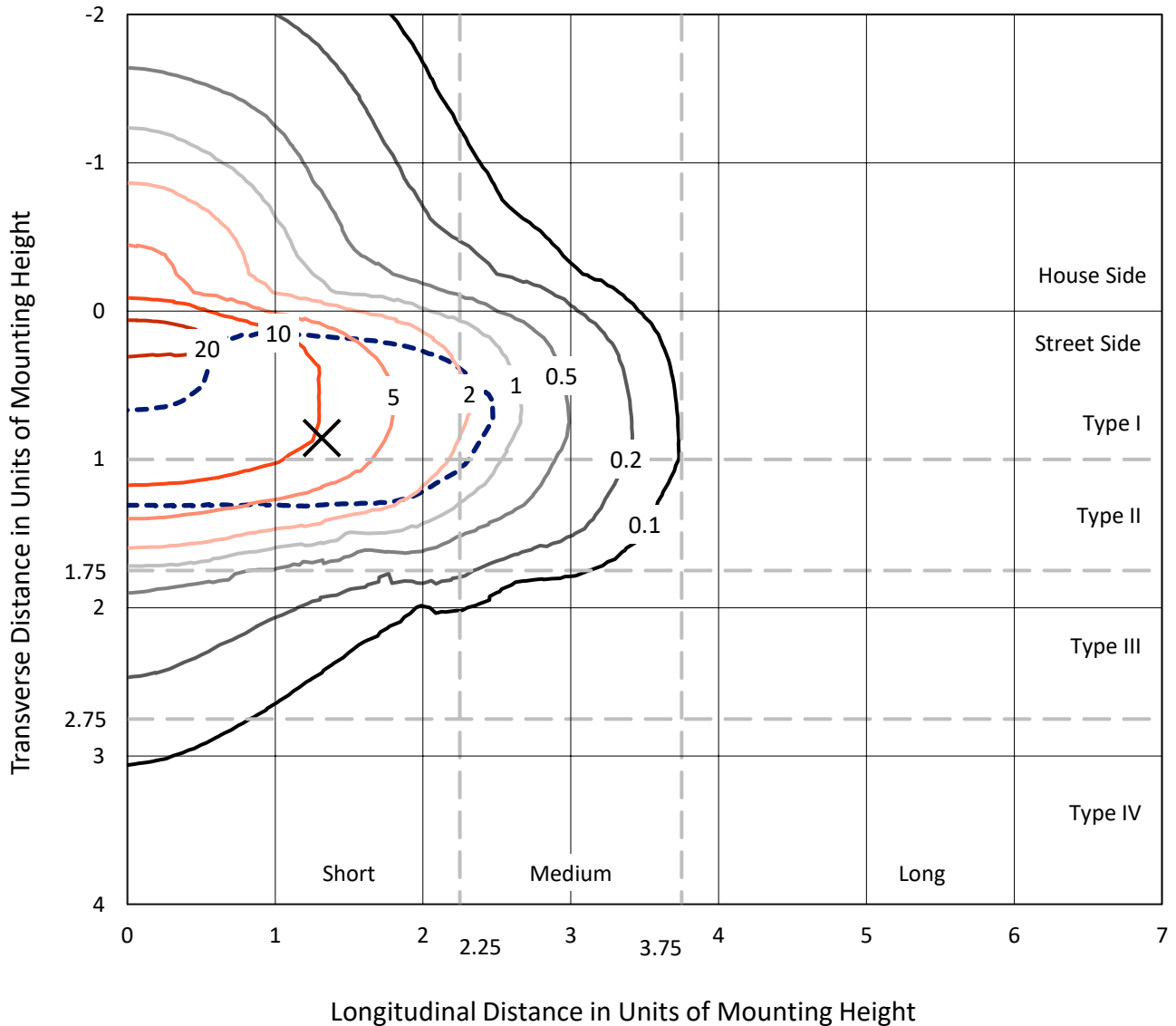
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P457879  
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### Iso-Footcandle Lines of Horizontal Illumination

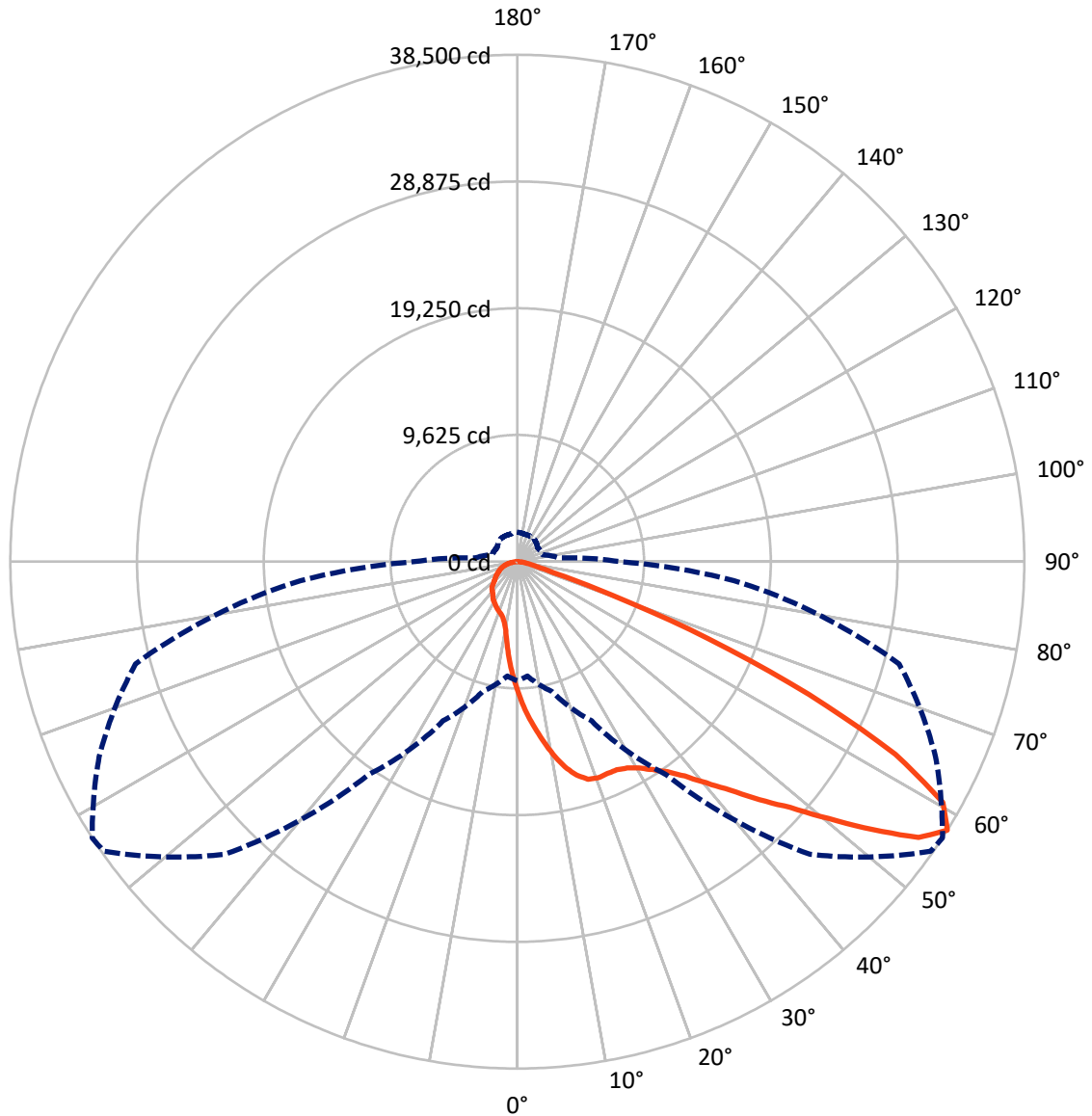
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P457879  
CATALOG NUMBER: GALN-SA9B-730-U-AFL

### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P457879

CATALOG NUMBER: GALN-SA9B-730-U-AFL

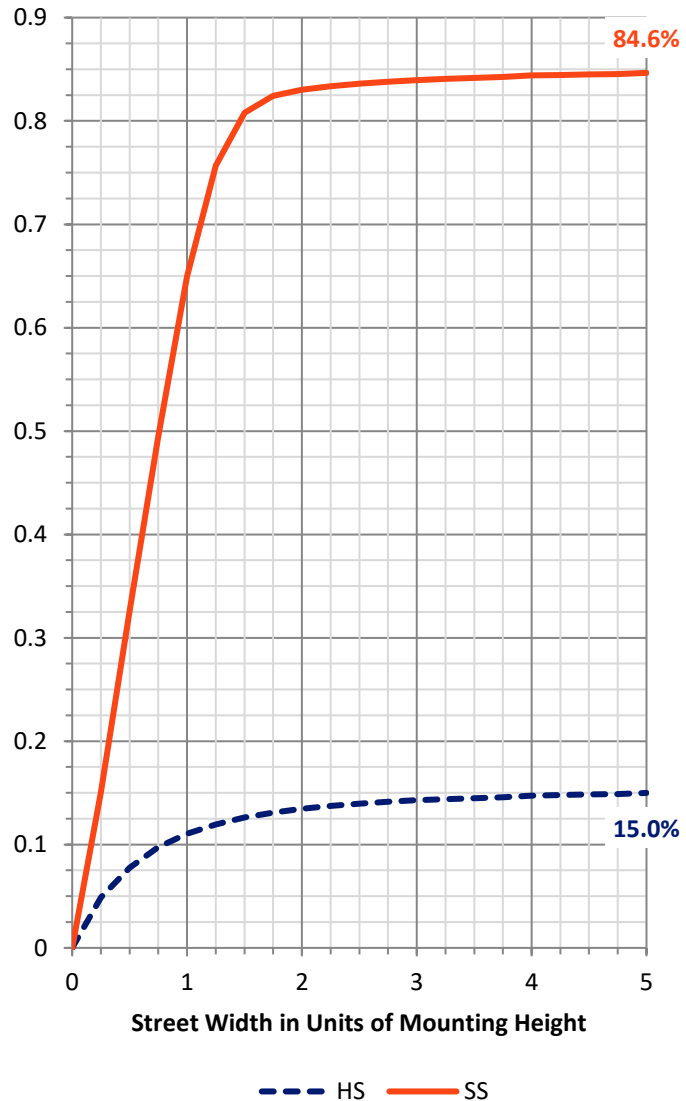
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7214.1	0.0	7214.1
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	40224.9	0.0	40224.9
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	47439.0	0.0	47439.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	957.9	2.0
10°-20°	2822.9	6.0
20°-30°	4687.5	9.9
30°-40°	7060.7	14.9
40°-50°	10600.9	22.3
50°-60°	11882.3	25.0
60°-70°	6954.1	14.7
70°-80°	2057.0	4.3
80°-90°	415.8	0.9
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°	47439.0	100.0
0°-180°	47439.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P457879

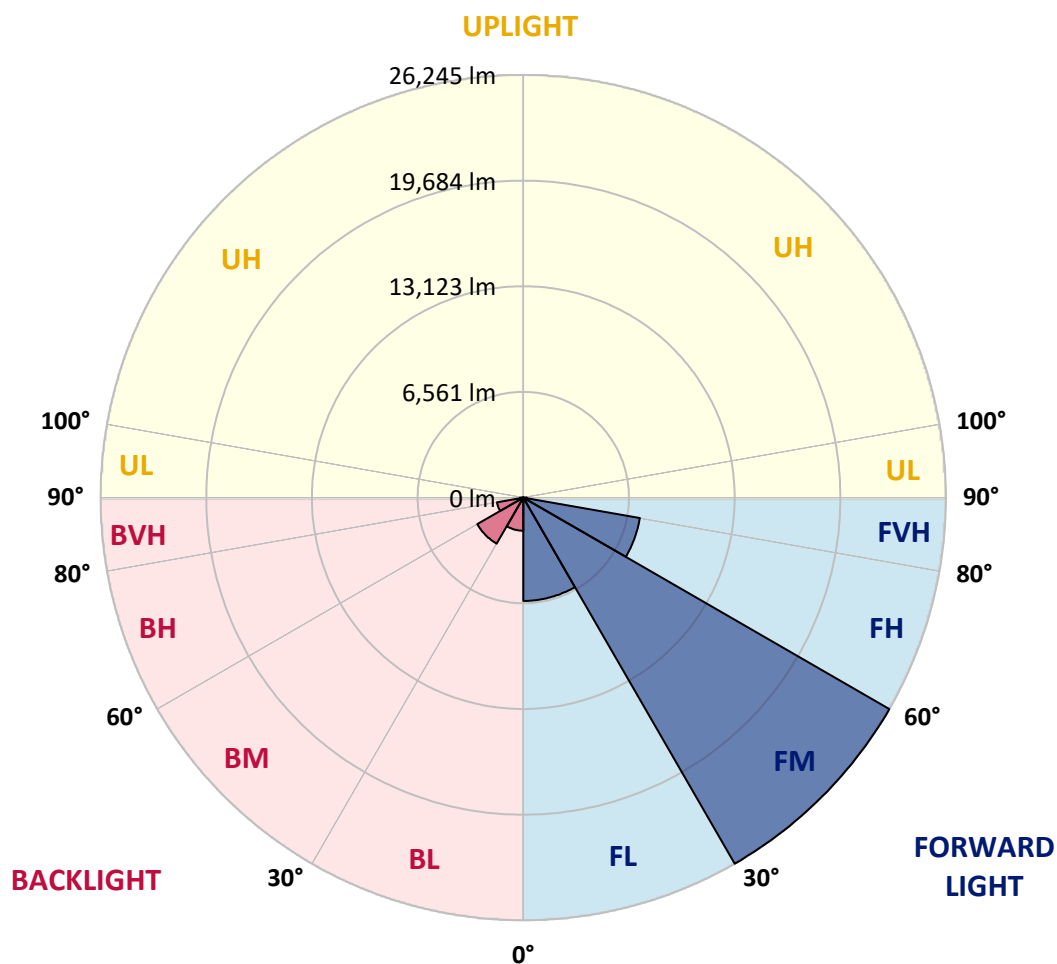
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6412.7	13.5			
FM	(30°-60°)	26245.3	55.3			
FH	(60°-80°)	7351.1	15.5			G3/7500
FVH	(80°-90°)	215.7	0.5			G2/225
BL	(0°-30°)	2055.6	4.3	B3/2500		
BM	(30°-60°)	3298.6	7.0	B3/5000		
BH	(60°-80°)	1659.9	3.5	B3/2500		G3/2500
BVH	(80°-90°)	200.1	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	9966.4	9966.4	9966.4	9966.4	9966.4	9966.4	9966.4	9966.4	9966.4	9966.4	9966.4
2.5°	12384.0	12248.9	12142.5	12049.0	11926.9	11597.2	11267.4	11262.2	10999.9	10594.8	10179.3
5°	14401.7	14219.9	14243.3	13952.4	13661.6	13183.8	12485.3	12448.9	11890.6	11132.3	10361.1
7.5°	15715.6	15718.2	15645.5	15479.3	15165.1	14622.4	13830.4	13651.2	12874.8	11724.4	10568.8
10°	15648.1	15718.2	15840.3	15983.1	16079.2	15811.7	15089.8	14871.7	13861.5	12441.1	10800.0
12.5°	14749.6	14858.7	15032.7	15391.0	15970.1	16411.6	16164.9	15988.3	15004.1	13155.2	11054.4
15°	14188.7	14253.7	14349.7	14591.2	15214.5	16271.3	16910.1	16816.7	16081.8	13962.8	11340.1
17.5°	14017.3	14082.3	14113.4	14261.4	14705.5	15788.3	17203.6	17369.8	17037.4	14705.5	11628.3
20°	14188.7	14219.9	14219.9	14308.2	14656.2	15505.3	17190.6	17525.6	17821.6	15596.2	11898.4
22.5°	14638.0	14651.0	14632.8	14663.9	14923.6	15583.2	17068.5	17484.0	18455.2	16351.8	12108.7
25°	15367.7	15388.4	15269.0	15196.3	15385.8	15926.0	17136.1	17517.8	18951.2	17073.7	12248.9
27.5°	16196.0	16222.0	16076.6	15907.8	15996.1	16349.2	17400.9	17743.7	19322.5	17785.3	12337.2
30°	17211.4	17221.8	16977.7	16775.1	16718.0	16980.3	17852.8	18172.2	19784.8	18624.0	12469.7
32.5°	18250.1	18328.0	18013.8	17728.1	17632.0	17712.5	18520.1	18829.2	20335.3	19525.1	12682.6
35°	19662.7	19675.7	19299.2	18951.2	18634.4	18738.3	19374.5	19597.8	21096.1	20566.4	12983.8
37.5°	21425.9	21545.4	21026.0	20376.8	19987.3	19836.7	20408.0	20652.1	22163.4	21844.0	13438.3
40°	23383.9	23428.0	22984.0	22578.9	21867.4	21431.1	21825.8	22090.7	23480.0	23368.3	13965.4
42.5°	24614.8	24710.8	24744.6	24703.0	24168.1	23435.8	23586.4	23711.1	25038.0	24799.1	14505.5
45°	25030.2	25173.1	25656.1	26679.2	26736.3	26014.4	25663.8	25783.3	26736.3	26242.9	15022.3
47.5°	24342.1	24586.2	25476.9	27575.1	29146.1	29200.6	28143.8	27881.5	28284.0	27440.0	15396.2
50°	22563.3	22615.2	23978.5	27016.8	30275.7	32246.7	31153.4	30665.2	29753.8	28325.5	15653.3
52.5°	19810.7	19870.5	21013.0	24422.6	29579.8	34376.0	34674.6	33802.1	31246.9	29013.7	15822.1
55°	14705.5	15050.9	16307.7	19603.0	26281.9	34176.0	37473.9	36978.0	33051.6	29559.0	16087.0
57.5°	9041.9	8725.1	10215.7	13337.0	19766.6	31428.7	38338.7	38499.7	35038.2	30016.0	16531.0
60°	4160.0	4222.3	4837.8	6878.8	12049.0	24586.2	36110.6	37128.6	36136.6	30000.4	16642.7
62.5°	2866.8	2809.7	2653.9	3020.0	5494.8	15549.4	30501.6	32225.9	33934.5	29068.2	16198.6
65°	2563.0	2505.9	2204.7	2103.4	2524.1	6777.6	22173.8	24349.9	28572.2	26715.5	15092.4
67.5°	2394.2	2316.3	2004.7	1807.3	1802.2	2698.0	13074.7	15694.9	21192.2	22586.7	13077.3
70°	2217.6	2155.3	1846.3	1628.2	1534.7	1695.7	5746.6	7522.8	13760.3	16276.5	10187.1
72.5°	2041.1	1968.3	1690.5	1456.8	1334.7	1269.8	2202.1	2864.2	7774.7	9758.6	6245.2
75°	1784.0	1747.6	1511.3	1319.2	1186.7	1025.7	1397.1	1594.4	3718.6	4482.0	3134.3
77.5°	1560.7	1521.7	1342.5	1153.0	1056.9	833.6	992.0	1082.9	1568.4	1817.7	1415.2
80°	1142.6	1181.5	1132.2	1017.9	942.6	654.4	667.4	742.7	932.2	1030.9	864.7
82.5°	724.5	797.2	872.5	784.2	714.1	516.8	462.2	490.8	636.2	675.2	384.3
85°	303.8	309.0	506.4	477.8	407.7	306.4	277.9	293.4	340.2	355.8	179.2
87.5°	116.9	114.3	179.2	166.2	127.2	88.3	88.3	98.7	135.0	124.6	57.1
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°	9966.4	9966.4	9966.4	9966.4	9966.4	9966.4	9966.4	9966.4	9966.4	9966.4	9966.4
2.5°	10000.1	9815.8	9449.6	8995.2	8662.8	8288.9	7959.1	7722.8	7634.5	7592.9	7515.0
5°	9992.4	9628.8	8870.6	8075.9	7437.1	6782.8	6229.6	5871.3	5840.1	5601.2	5577.9
7.5°	9995.0	9439.2	8231.8	7063.2	6089.4	5419.5	4962.4	4843.0	4700.1	4663.8	4682.0
10°	10002.7	9197.7	7546.2	6060.9	5118.2	4679.4	4508.0	4461.2	4466.4	4482.0	4484.6
12.5°	10013.1	8964.0	6834.7	5300.0	4572.9	4391.1	4373.0	4414.5	4458.6	4492.4	4500.2
15°	10026.1	8696.6	6141.4	4687.2	4300.2	4284.7	4344.4	4414.5	4476.8	4526.2	4534.0
17.5°	10010.5	8385.0	5559.7	4310.6	4149.6	4224.9	4323.6	4411.9	4469.0	4515.8	4521.0
20°	9974.2	8037.0	4998.8	4045.8	4056.1	4178.2	4284.7	4367.8	4430.1	4453.5	4471.6
22.5°	9834.0	7621.5	4510.6	3840.6	3944.5	4113.3	4240.5	4289.9	4219.7	4170.4	4183.4
25°	9595.1	7081.4	4056.1	3674.4	3843.2	4022.4	4152.2	4032.8	3975.6	3954.9	3965.3
27.5°	9296.4	6489.3	3713.4	3500.4	3713.4	3921.1	3884.8	3864.0	3838.0	3804.3	3812.1
30°	8974.4	5910.2	3422.5	3365.4	3573.2	3692.6	3708.2	3741.9	3713.4	3661.4	3682.2
32.5°	8675.8	5364.9	3201.8	3251.2	3474.5	3456.3	3573.2	3612.1	3479.7	3305.7	3313.5
35°	8421.3	4858.6	3035.6	3139.5	3305.7	3313.5	3430.3	3295.3	3152.5	3069.4	3074.6
37.5°	8229.2	4463.8	2926.6	3043.4	3090.2	3188.8	3126.5	3056.4	3038.2	2981.1	2983.7
40°	8114.9	4118.5	2856.4	2968.1	2960.3	3027.8	2827.9	2898.0	2924.0	2905.8	2908.4
42.5°	8000.6	3874.4	2783.7	2864.2	2861.6	2729.2	2685.1	2744.8	2812.3	2820.1	2814.9
45°	7909.8	3684.8	2708.4	2705.8	2757.8	2550.0	2537.0	2573.4	2669.5	2716.2	2713.6
47.5°	7808.5	3526.4	2594.2	2521.5	2537.0	2438.4	2417.6	2433.2	2550.0	2625.3	2646.1
50°	7681.2	3368.0	2451.3	2352.7	2287.8	2334.5	2339.7	2342.3	2459.1	2544.8	2563.0
52.5°	7580.0	3248.6	2287.8	2215.0	2137.1	2241.0	2280.0	2285.2	2355.3	2425.4	2438.4
55°	7639.7	3181.0	2126.8	2074.8	2004.7	2144.9	2220.2	2230.6	2246.2	2298.1	2305.9
57.5°	7818.9	3196.6	1996.9	1929.4	1877.5	2030.7	2157.9	2165.7	2155.3	2217.6	2228.0
60°	7873.4	3188.8	1900.8	1768.4	1737.2	1908.6	2067.0	2082.6	2080.0	2170.9	2189.1
62.5°	7644.9	3090.2	1804.8	1633.4	1612.6	1784.0	1939.8	2002.1	2015.1	2144.9	2168.3
65°	7107.4	2887.6	1677.5	1490.5	1490.5	1651.5	1817.7	1903.4	1939.8	2113.8	2139.7
67.5°	6398.4	2648.7	1547.7	1368.5	1363.3	1524.3	1687.9	1776.2	1833.3	2069.6	2085.2
70°	5310.4	2326.7	1386.7	1236.1	1236.1	1381.5	1529.5	1636.0	1719.1	1986.5	1986.5
72.5°	3638.1	1934.6	1191.9	1085.4	1088.0	1223.1	1373.7	1493.1	1591.8	1820.3	1825.5
75°	2300.7	1511.3	979.0	924.4	934.8	1062.1	1217.9	1342.5	1539.9	1799.6	1807.3
77.5°	1223.1	1062.1	779.0	766.0	779.0	895.9	1069.9	1241.3	1545.1	1560.7	1534.7
80°	792.0	753.1	615.4	589.5	594.7	721.9	953.0	1178.9	1241.3	1256.8	1199.7
82.5°	431.1	477.8	436.3	410.3	410.3	563.5	812.8	937.4	890.7	740.1	706.3
85°	184.4	223.3	225.9	197.4	189.6	348.0	545.3	511.6	475.2	454.4	449.2
87.5°	51.9	72.7	72.7	54.5	41.5	96.1	109.1	31.2	0.0	2.6	5.2
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)