

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: P193374

Luminaire Tested: **GLEON-AF-06-LED-E1-5NQ-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193374  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-06-LED-E1-5NQ-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19744 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - U0 - G2

Input Watts (W): 193  
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: 25 FT

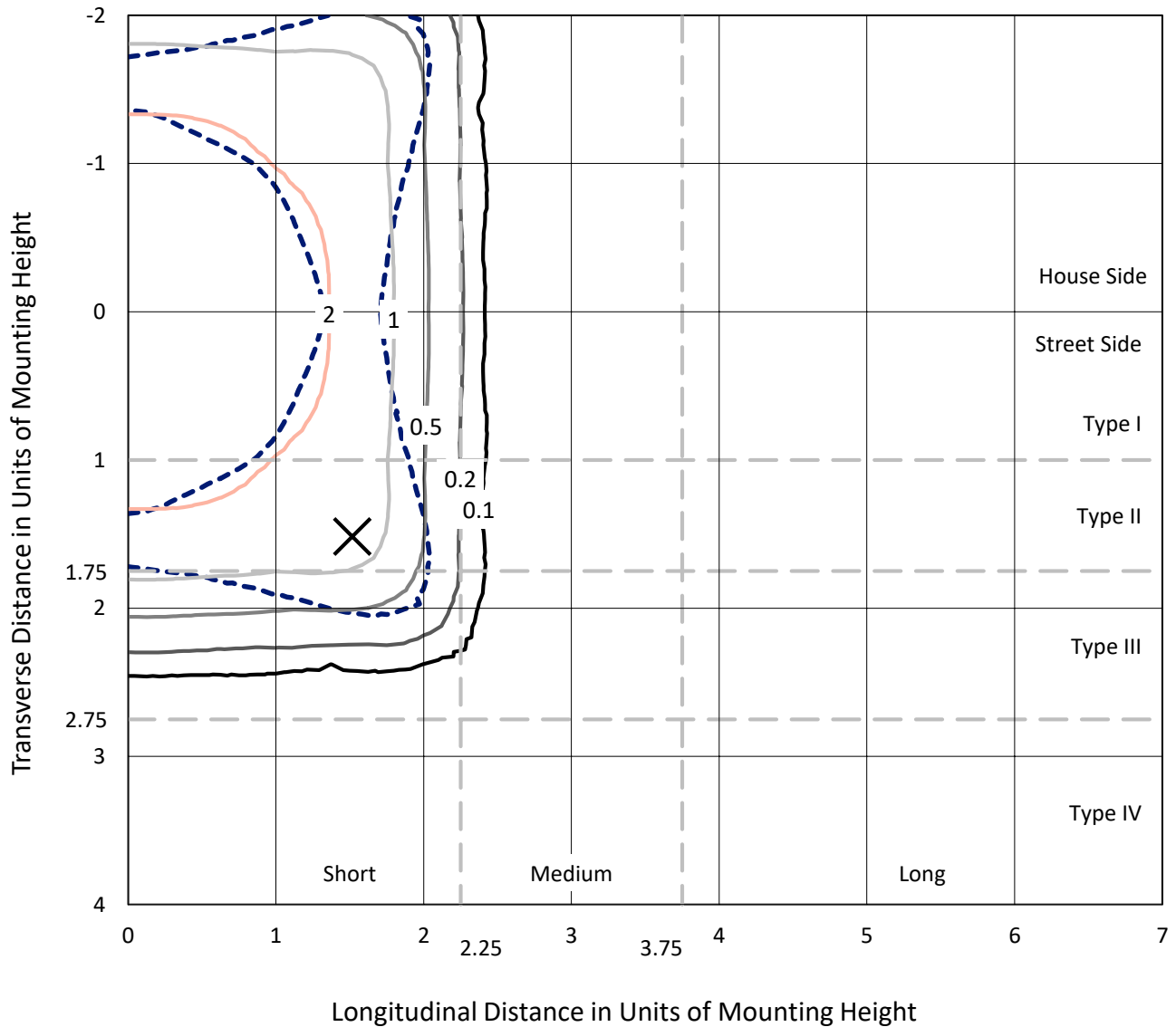


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

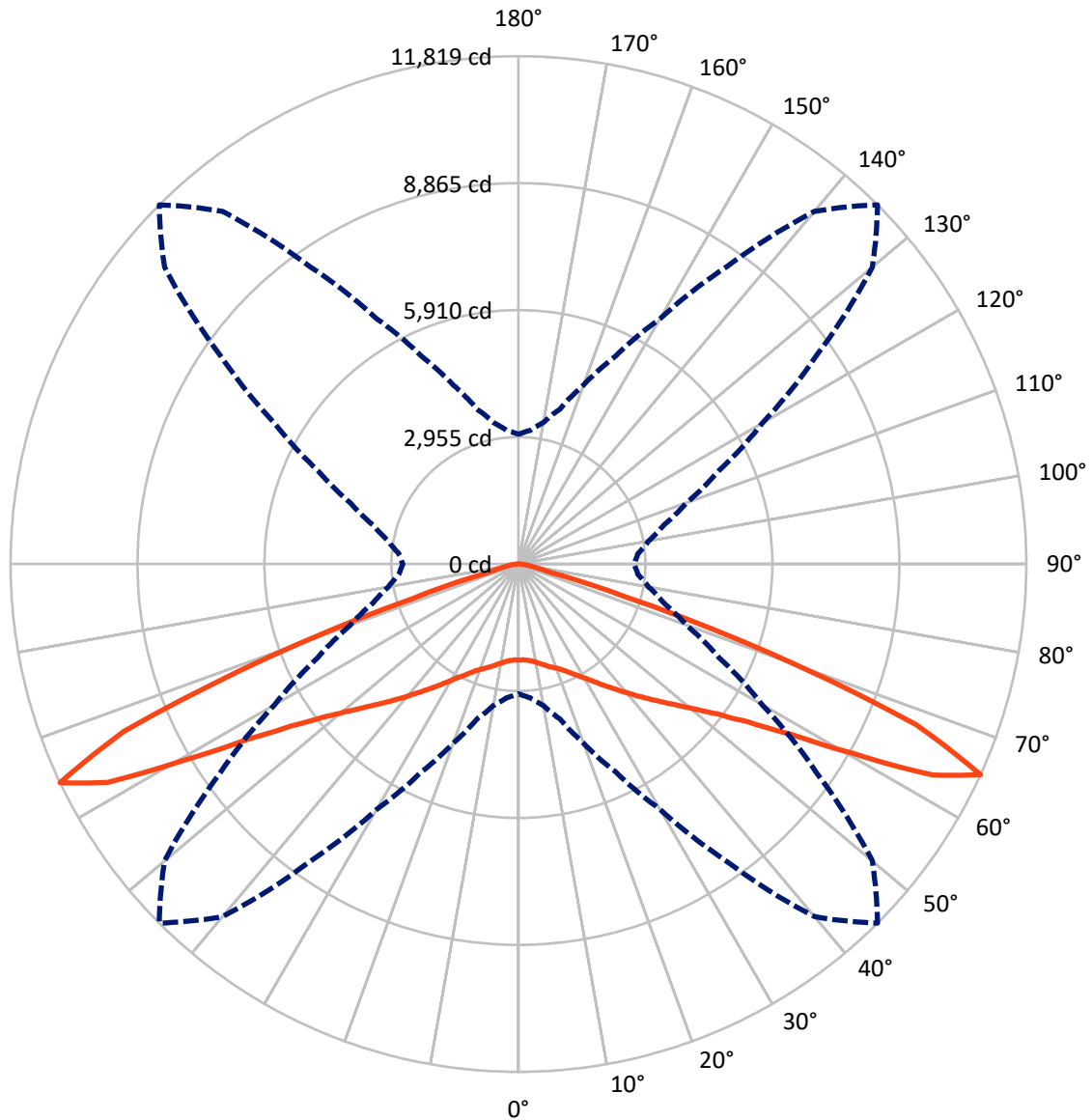


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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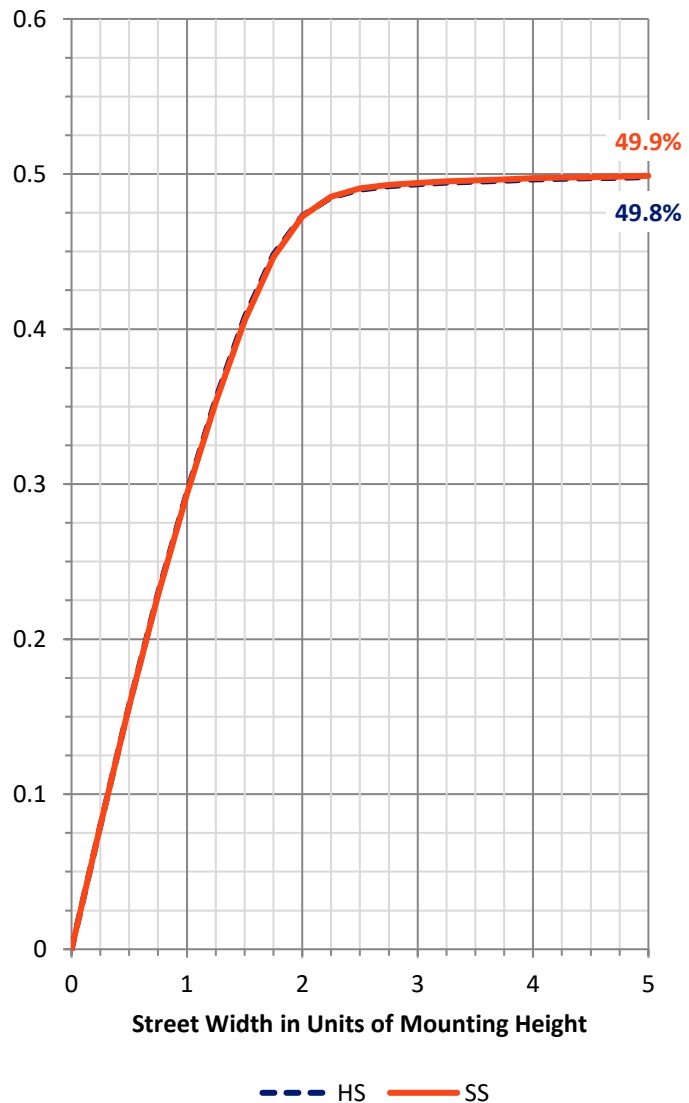
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9872.0	0.0	9872.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9872.0	0.0	9872.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19744.0	0.0	19744.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.7	1.1
10°-20°	698.4	3.5
20°-30°	1305.8	6.6
30°-40°	2208.5	11.2
40°-50°	3611.1	18.3
50°-60°	5742.2	29.1
60°-70°	5190.5	26.3
70°-80°	656.9	3.3
80°-90°	113.0	0.6
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°	19744.0	100.0
0°-180°	19744.0	100.0

**Coefficient of Utilization**



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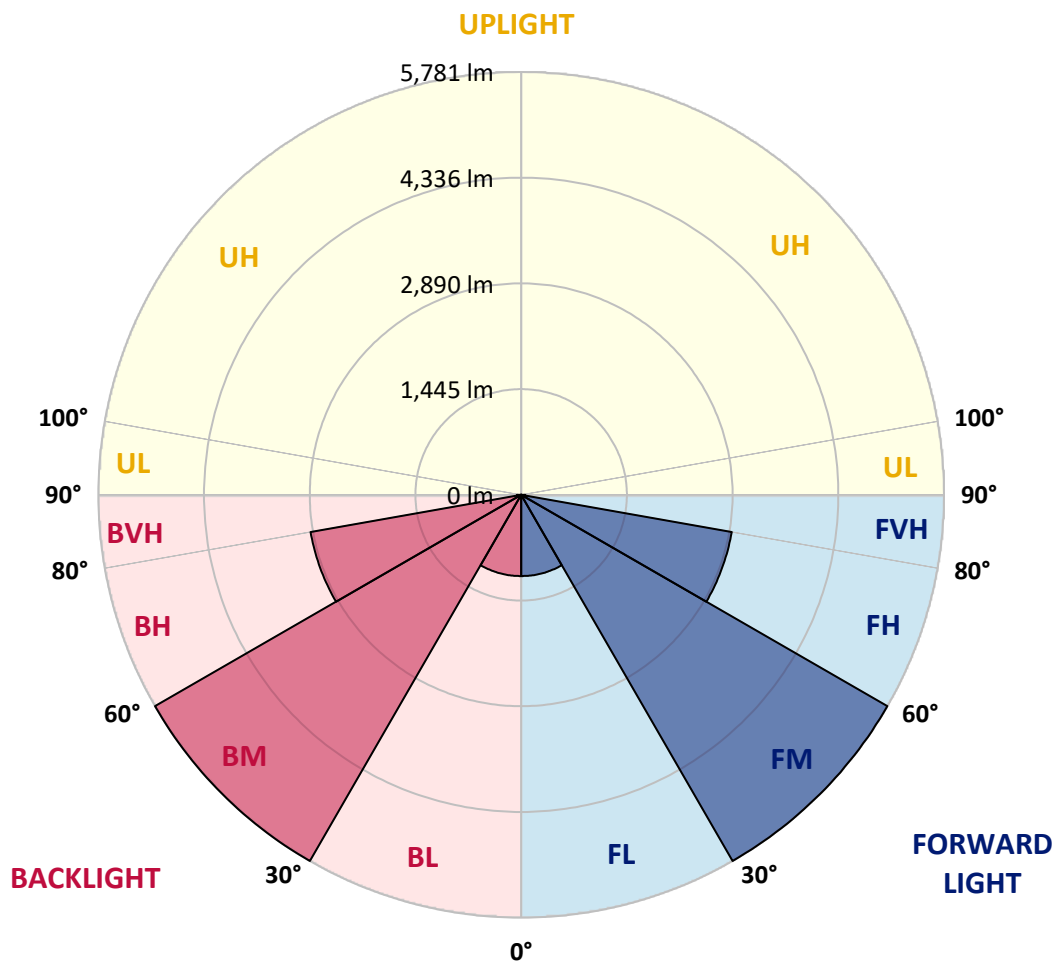
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1110.9	5.6			
FM	(30°-60°)	5780.8	29.3			
FH	(60°-80°)	2923.7	14.8			G2/5000
FVH	(80°-90°)	56.5	0.3			G1/100
BL	(0°-30°)	1110.9	5.6	B3/2500		
BM	(30°-60°)	5780.8	29.3	B4/8500		
BH	(60°-80°)	2923.7	14.8	B4/5000		G2/5000
BVH	(80°-90°)	56.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2234.0	2234.0	2234.0	2234.0	2234.0	2234.0	2234.0	2234.0	2234.0	2234.0	2234.0
2.5°	2235.9	2237.7	2239.6	2237.7	2239.6	2236.8	2235.0	2237.7	2235.0	2232.2	2234.0
5°	2255.3	2256.2	2256.2	2253.5	2256.2	2254.4	2251.6	2255.3	2252.5	2249.8	2251.6
7.5°	2287.7	2291.4	2288.6	2285.8	2287.7	2285.8	2284.0	2284.9	2284.0	2281.2	2282.1
10°	2331.1	2333.9	2332.1	2331.1	2333.0	2332.1	2330.2	2329.3	2330.2	2327.4	2327.4
12.5°	2383.8	2382.9	2382.0	2382.9	2385.7	2385.7	2384.8	2385.7	2387.5	2388.5	2386.6
15°	2435.6	2437.5	2437.5	2437.5	2443.0	2447.6	2450.4	2452.3	2456.0	2456.9	2453.2
17.5°	2500.4	2500.4	2499.4	2500.4	2505.9	2513.3	2516.1	2519.8	2523.5	2526.2	2521.6
20°	2572.5	2574.3	2574.3	2576.2	2583.6	2591.9	2591.9	2593.7	2591.9	2593.7	2591.0
22.5°	2660.3	2665.9	2665.9	2666.8	2674.2	2684.4	2681.6	2684.4	2679.7	2683.4	2679.7
25°	2775.0	2783.3	2781.5	2781.5	2787.0	2793.5	2794.4	2800.0	2799.0	2803.7	2800.9
27.5°	2904.4	2917.4	2921.1	2920.2	2923.9	2930.3	2932.2	2938.7	2935.0	2938.7	2936.8
30°	3059.8	3065.3	3072.7	3075.5	3080.1	3086.6	3086.6	3087.5	3082.9	3088.5	3091.2
32.5°	3220.7	3230.9	3238.3	3254.9	3263.2	3267.8	3266.9	3268.8	3264.1	3271.5	3277.1
35°	3433.4	3440.8	3452.8	3465.7	3476.8	3475.9	3473.1	3474.0	3474.0	3480.5	3486.1
37.5°	3689.5	3691.4	3707.1	3725.6	3731.1	3725.6	3708.9	3705.2	3696.9	3705.2	3714.5
40°	3960.4	3966.9	3998.3	4010.4	4013.1	4003.0	3978.9	3965.1	3946.6	3956.7	3969.7
42.5°	4244.3	4257.3	4285.9	4307.2	4316.4	4310.0	4276.7	4255.4	4231.4	4236.9	4249.9
45°	4558.7	4574.4	4615.1	4635.5	4653.0	4642.9	4610.5	4578.1	4540.2	4543.0	4563.3
47.5°	4910.1	4925.8	4978.5	5012.7	5022.0	5020.1	4984.1	4939.7	4887.9	4886.0	4903.6
50°	5304.0	5319.7	5385.4	5438.1	5464.9	5462.1	5419.6	5356.7	5293.8	5294.8	5317.0
52.5°	5688.7	5708.1	5776.5	5867.1	5919.8	5957.8	5931.9	5872.7	5795.9	5797.8	5818.1
55°	6049.3	6081.7	6160.3	6283.2	6381.3	6487.6	6518.1	6516.3	6470.0	6483.0	6503.3
57.5°	6224.1	6272.2	6393.3	6587.5	6787.2	7003.6	7186.7	7323.5	7381.8	7469.6	7449.3
60°	5893.0	5969.8	6148.2	6434.0	6828.8	7280.1	7763.7	8236.2	8639.4	8943.6	8768.8
62.5°	4825.0	4924.9	5141.3	5507.4	6104.8	6827.0	7752.6	8869.6	10086.5	10820.7	10296.4
65°	3019.1	3122.7	3342.7	3734.8	4433.9	5331.7	6587.5	8438.7	10712.5	11819.4	10752.3
67.5°	1177.1	1233.5	1352.8	1603.4	2128.6	2927.6	4187.9	6288.8	9008.3	9978.3	8840.9
70°	590.0	595.5	617.7	663.9	776.7	1008.8	1535.0	2915.5	5166.2	6239.8	4980.4
72.5°	426.3	427.2	438.3	458.6	494.7	546.5	646.4	892.3	1680.2	2567.9	1574.7
75°	326.4	330.1	336.6	347.7	367.1	393.0	429.1	514.1	637.1	738.8	621.4
77.5°	251.5	258.9	263.5	273.7	285.7	303.3	313.5	345.8	402.2	423.5	417.0
80°	191.4	197.9	208.1	216.4	224.7	233.0	229.3	244.1	273.7	291.3	282.0
82.5°	122.1	129.5	159.0	166.4	170.1	175.7	169.2	170.1	183.1	194.2	183.1
85°	78.6	83.2	100.8	110.0	111.0	114.7	111.9	105.4	105.4	96.2	108.2
87.5°	36.1	37.0	45.3	53.6	55.5	49.9	49.0	47.2	37.9	36.1	38.8
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2234.0	2234.0	2234.0	2234.0	2234.0	2234.0	2234.0	2234.0
2.5°	2233.1	2235.0	2235.9	2238.7	2239.6	2239.6	2240.5	2242.4
5°	2250.7	2253.5	2254.4	2258.1	2259.0	2258.1	2259.9	2260.9
7.5°	2282.1	2286.8	2288.6	2292.3	2289.5	2293.2	2294.1	2294.1
10°	2328.4	2333.0	2333.9	2337.6	2335.8	2337.6	2337.6	2335.8
12.5°	2389.4	2390.3	2387.5	2390.3	2386.6	2388.5	2385.7	2383.8
15°	2456.9	2454.1	2447.6	2447.6	2442.1	2443.0	2442.1	2441.2
17.5°	2522.5	2517.0	2512.4	2510.5	2505.9	2505.0	2502.2	2502.2
20°	2594.7	2591.9	2589.1	2585.4	2580.8	2576.2	2575.3	2577.1
22.5°	2681.6	2680.7	2680.7	2678.8	2672.3	2667.7	2664.9	2664.9
25°	2798.1	2789.8	2789.8	2788.9	2786.1	2783.3	2777.8	2780.5
27.5°	2929.4	2924.8	2928.5	2927.6	2924.8	2924.8	2921.1	2921.1
30°	3091.2	3089.4	3094.9	3090.3	3081.1	3080.1	3076.4	3071.8
32.5°	3278.0	3276.2	3284.5	3278.9	3264.1	3255.8	3248.4	3244.7
35°	3486.1	3487.0	3497.2	3493.5	3476.8	3471.3	3458.3	3456.5
37.5°	3713.5	3728.3	3745.9	3749.6	3735.7	3732.0	3718.2	3710.8
40°	3980.8	4000.2	4027.0	4033.5	4018.7	4015.9	3996.5	3986.3
42.5°	4265.6	4298.9	4332.2	4337.7	4322.9	4308.1	4289.6	4282.2
45°	4583.7	4623.4	4666.9	4678.0	4655.8	4638.2	4614.2	4614.2
47.5°	4940.6	4990.5	5039.5	5070.1	5049.7	5031.2	5002.6	4984.1
50°	5362.3	5430.7	5494.5	5525.9	5493.6	5458.4	5408.5	5391.9
52.5°	5891.2	5965.2	6020.6	6004.0	5954.1	5905.1	5850.5	5828.3
55°	6566.2	6591.2	6591.2	6528.3	6428.4	6346.1	6260.1	6231.5
57.5°	7410.4	7314.3	7166.3	6978.6	6742.8	6537.5	6398.8	6333.2
60°	8402.6	7940.3	7417.8	6904.6	6483.0	6135.3	5929.1	5834.8
62.5°	9063.8	7854.3	6807.5	5983.7	5377.1	4958.2	4673.4	4562.4
65°	8471.1	6550.5	5148.7	4162.9	3501.8	3075.5	2793.5	2689.9
67.5°	6204.7	4104.7	2741.7	1965.0	1439.7	1148.5	1032.9	984.8
70°	2785.2	1445.3	885.9	691.7	596.4	547.4	526.1	518.7
72.5°	839.6	607.5	512.3	462.3	424.4	400.4	382.8	381.0
75°	506.7	421.7	374.5	344.9	320.9	301.4	292.2	289.4
77.5°	354.2	309.8	287.6	266.3	247.8	233.0	224.7	218.2
80°	248.7	227.5	217.3	205.3	193.3	179.4	167.4	161.8
82.5°	166.4	161.8	161.8	154.4	144.3	131.3	107.3	101.7
85°	107.3	106.3	108.2	105.4	98.0	84.1	69.4	65.7
87.5°	49.9	50.9	56.4	55.5	53.6	44.4	35.1	33.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)