

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: P299487

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299487
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: GLNA-AF-06-LED-E1-5NQ-8030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19674.7 lumens
Efficiency: N/A
Efficacy: 101.9 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



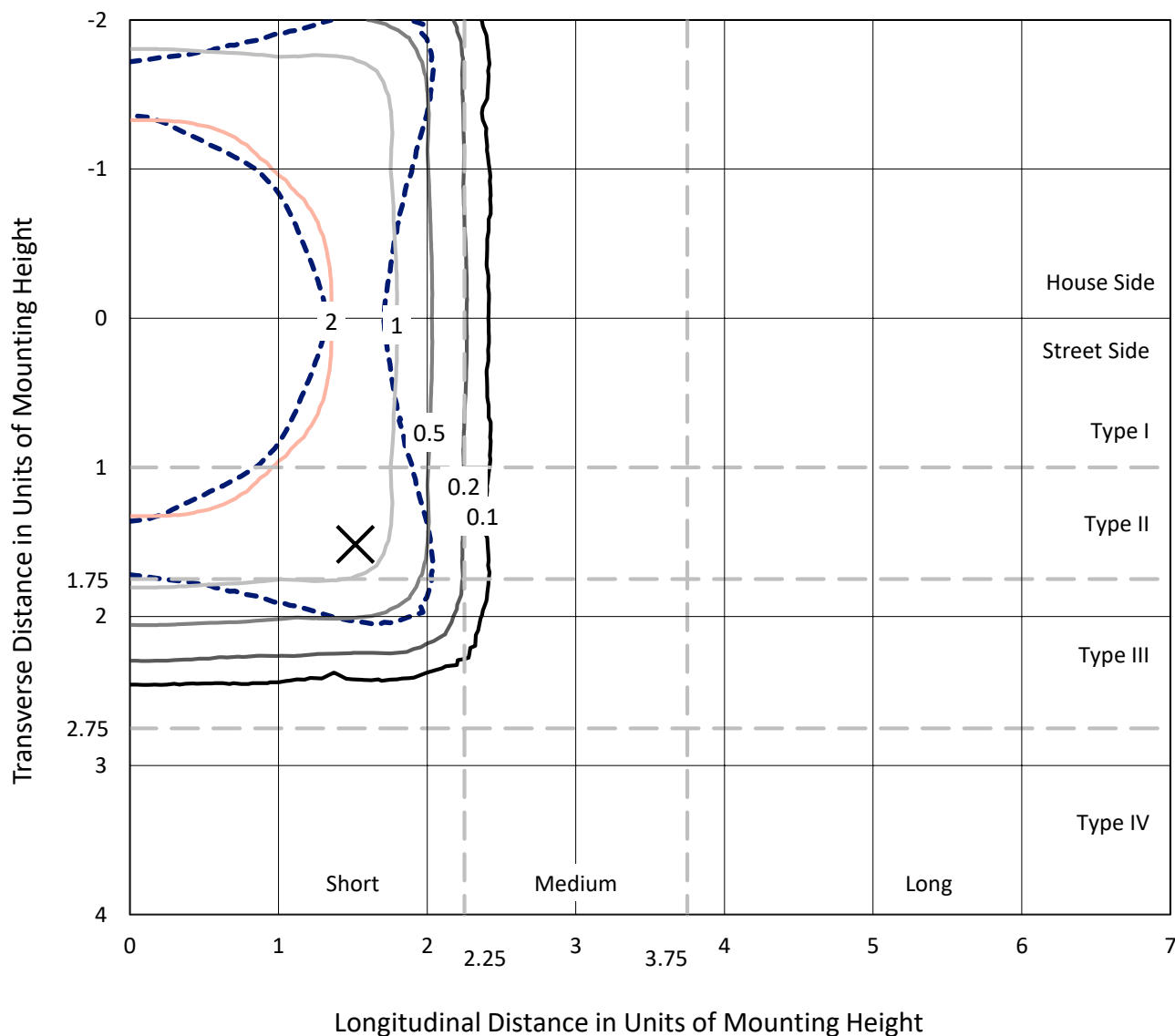
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

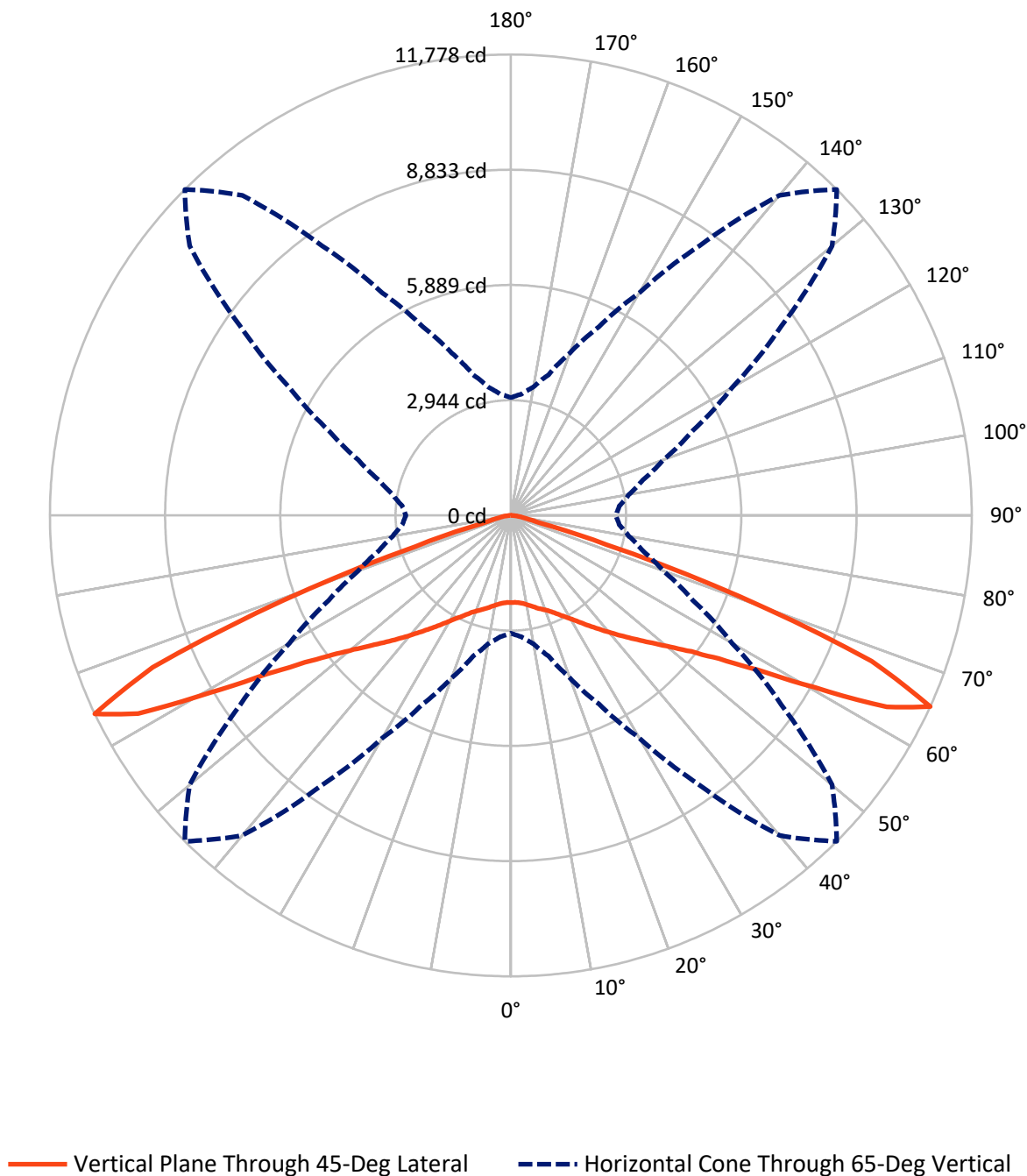


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9837.4	0.0	9837.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9837.4	0.0	9837.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	19674.7	0.0	19674.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.0	1.1
10°-20°	695.9	3.5
20°-30°	1301.2	6.6
30°-40°	2200.7	11.2
40°-50°	3598.4	18.3
50°-60°	5722.0	29.1
60°-70°	5172.3	26.3
70°-80°	654.6	3.3
80°-90°	112.6	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°	19674.7	100.0
0°-180°	19674.7	100.0

Coefficient of Utilization



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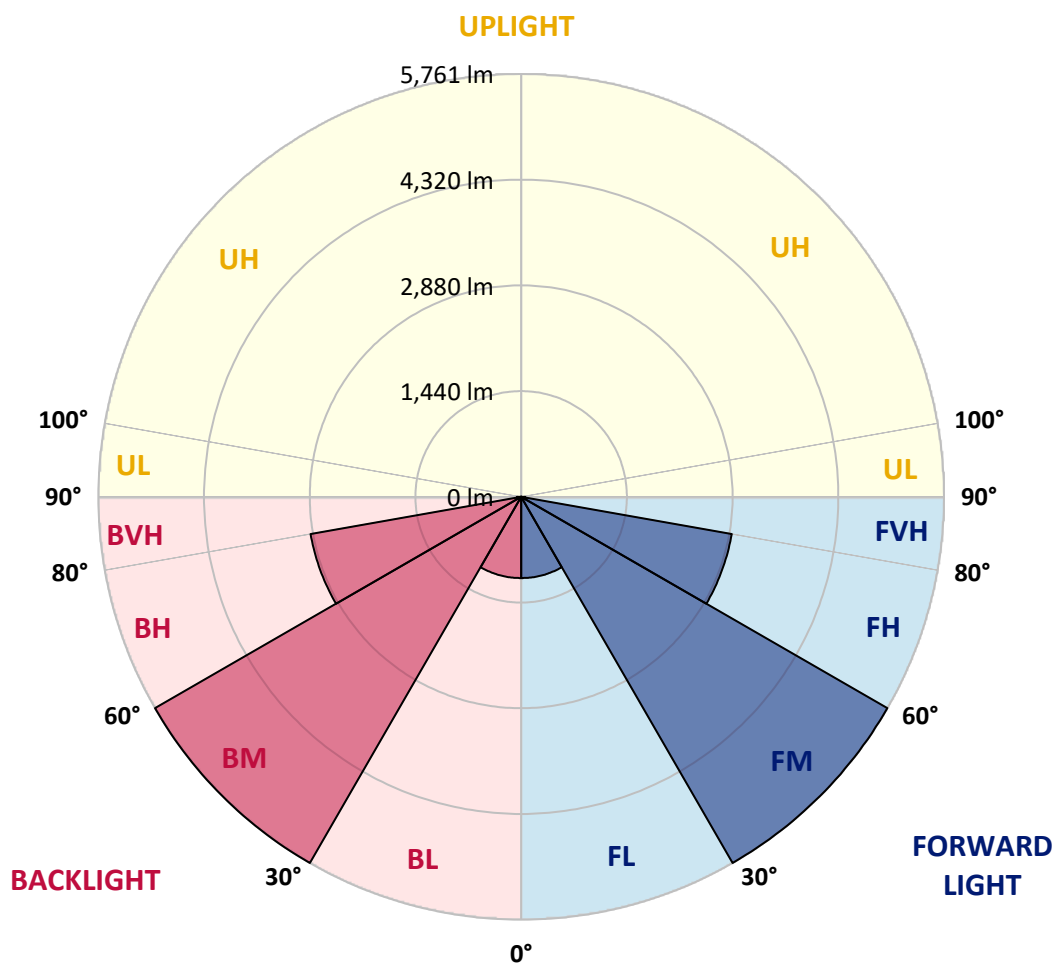
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1107.0	5.6			
FM	(30°-60°)	5760.6	29.3			
FH	(60°-80°)	2913.5	14.8			G2/5000
FVH	(80°-90°)	56.3	0.3			G1/100
BL	(0°-30°)	1107.0	5.6	B3/2500		
BM	(30°-60°)	5760.6	29.3	B4/8500		
BH	(60°-80°)	2913.5	14.8	B4/5000		G2/5000
BVH	(80°-90°)	56.3	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°	2226.2	2226.2	2226.2	2226.2	2226.2	2226.2	2226.2	2226.2	2226.2	2226.2	2226.2
2.5°	2228.0	2229.9	2231.7	2229.9	2231.7	2229.0	2227.1	2229.9	2227.1	2224.4	2226.2
5°	2247.4	2248.3	2248.3	2245.6	2248.3	2246.5	2243.7	2247.4	2244.6	2241.9	2243.7
7.5°	2279.6	2283.3	2280.6	2277.8	2279.6	2277.8	2276.0	2276.9	2276.0	2273.2	2274.1
10°	2323.0	2325.7	2323.9	2323.0	2324.8	2323.9	2322.0	2321.1	2322.0	2319.3	2319.3
12.5°	2375.5	2374.6	2373.6	2374.6	2377.3	2377.3	2376.4	2377.3	2379.2	2380.1	2378.2
15°	2427.1	2428.9	2428.9	2428.9	2434.4	2439.1	2441.8	2443.7	2447.3	2448.3	2444.6
17.5°	2491.6	2491.6	2490.7	2491.6	2497.1	2504.5	2507.2	2510.9	2514.6	2517.4	2512.8
20°	2563.5	2565.3	2565.3	2567.1	2574.5	2582.8	2582.8	2584.6	2582.8	2584.6	2581.9
22.5°	2651.0	2656.5	2656.5	2657.4	2664.8	2674.9	2672.2	2674.9	2670.3	2674.0	2670.3
25°	2765.2	2773.5	2771.7	2771.7	2777.2	2783.7	2784.6	2790.1	2789.2	2793.8	2791.0
27.5°	2894.2	2907.1	2910.8	2909.9	2913.6	2920.0	2921.9	2928.3	2924.7	2928.3	2926.5
30°	3049.1	3054.6	3062.0	3064.7	3069.3	3075.8	3075.8	3076.7	3072.1	3077.6	3080.4
32.5°	3209.4	3219.5	3226.9	3243.5	3251.8	3256.4	3255.5	3257.3	3252.7	3260.1	3265.6
35°	3421.3	3428.7	3440.7	3453.6	3464.6	3463.7	3460.9	3461.9	3461.9	3468.3	3473.8
37.5°	3676.6	3678.4	3694.1	3712.5	3718.0	3712.5	3695.9	3692.2	3683.9	3692.2	3701.4
40°	3946.5	3953.0	3984.3	3996.3	3999.1	3988.9	3965.0	3951.1	3932.7	3942.8	3955.7
42.5°	4229.4	4242.3	4270.9	4292.1	4301.3	4294.8	4261.7	4240.5	4216.5	4222.0	4234.9
45°	4542.7	4558.4	4598.9	4619.2	4636.7	4626.6	4594.3	4562.1	4524.3	4527.0	4547.3
47.5°	4892.9	4908.5	4961.0	4995.1	5004.4	5002.5	4966.6	4922.3	4870.7	4868.9	4886.4
50°	5285.4	5301.1	5366.5	5419.0	5445.7	5443.0	5400.6	5337.9	5275.3	5276.2	5298.3
52.5°	5668.7	5688.1	5756.2	5846.5	5899.1	5936.8	5911.0	5852.1	5775.6	5777.4	5797.7
55°	6028.1	6060.3	6138.6	6261.2	6358.9	6464.8	6495.2	6493.4	6447.3	6460.2	6480.5
57.5°	6202.2	6250.1	6370.8	6564.4	6763.4	6979.0	7161.4	7297.8	7355.9	7443.4	7423.1
60°	5872.3	5948.8	6126.7	6411.4	6804.8	7254.5	7736.4	8207.3	8609.0	8912.2	8738.0
62.5°	4808.1	4907.6	5123.2	5488.1	6083.4	6803.0	7725.4	8838.5	10051.1	10782.7	10260.3
65°	3008.5	3111.7	3331.0	3721.7	4418.3	5313.0	6564.4	8409.1	10674.9	11777.9	10714.5
67.5°	1173.0	1229.2	1348.1	1597.8	2121.2	2917.3	4173.2	6266.7	8976.7	9943.3	8809.9
70°	587.9	593.4	615.5	661.6	774.0	1005.3	1529.6	2905.3	5148.1	6217.9	4962.9
72.5°	424.8	425.7	436.8	457.0	493.0	544.6	644.1	889.2	1674.3	2558.8	1569.2
75°	325.3	329.0	335.4	346.5	365.8	391.6	427.5	512.3	634.9	736.2	619.2
77.5°	250.6	258.0	262.6	272.7	284.7	302.2	312.4	344.6	400.8	422.0	415.6
80°	190.7	197.2	207.3	215.6	223.9	232.2	228.5	243.3	272.7	290.3	281.0
82.5°	121.6	129.0	158.5	165.9	169.5	175.1	168.6	169.5	182.4	193.5	182.4
85°	78.3	82.9	100.4	109.7	110.6	114.3	111.5	105.0	105.0	95.8	107.8
87.5°	35.9	36.9	45.2	53.4	55.3	49.8	48.8	47.0	37.8	35.9	38.7
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°	2226.2	2226.2	2226.2	2226.2	2226.2	2226.2	2226.2	2226.2
2.5°	2225.3	2227.1	2228.0	2230.8	2231.7	2231.7	2232.7	2234.5
5°	2242.8	2245.6	2246.5	2250.2	2251.1	2250.2	2252.0	2252.9
7.5°	2274.1	2278.7	2280.6	2284.3	2281.5	2285.2	2286.1	2286.1
10°	2320.2	2324.8	2325.7	2329.4	2327.6	2329.4	2329.4	2327.6
12.5°	2381.0	2381.9	2379.2	2381.9	2378.2	2380.1	2377.3	2375.5
15°	2448.3	2445.5	2439.1	2439.1	2433.5	2434.4	2433.5	2432.6
17.5°	2513.7	2508.2	2503.6	2501.7	2497.1	2496.2	2493.4	2493.4
20°	2585.6	2582.8	2580.0	2576.4	2571.7	2567.1	2566.2	2568.1
22.5°	2672.2	2671.3	2671.3	2669.4	2663.0	2658.4	2655.6	2655.6
25°	2788.3	2780.0	2780.0	2779.1	2776.3	2773.5	2768.0	2770.8
27.5°	2919.1	2914.5	2918.2	2917.3	2914.5	2914.5	2910.8	2910.8
30°	3080.4	3078.5	3084.1	3079.5	3070.2	3069.3	3065.6	3061.0
32.5°	3266.5	3264.7	3273.0	3267.4	3252.7	3244.4	3237.0	3233.3
35°	3473.8	3474.8	3484.9	3481.2	3464.6	3459.1	3446.2	3444.3
37.5°	3700.5	3715.3	3732.8	3736.4	3722.6	3718.9	3705.1	3697.7
40°	3966.8	3986.2	4012.9	4019.3	4004.6	4001.8	3982.5	3972.3
42.5°	4250.6	4283.8	4317.0	4322.5	4307.7	4293.0	4274.6	4267.2
45°	4567.6	4607.2	4650.5	4661.6	4639.5	4622.0	4598.0	4598.0
47.5°	4923.3	4973.0	5021.9	5052.3	5032.0	5013.6	4985.0	4966.6
50°	5343.4	5411.6	5475.2	5506.5	5474.3	5439.3	5389.5	5372.9
52.5°	5870.5	5944.2	5999.5	5982.9	5933.2	5884.3	5830.0	5807.8
55°	6543.2	6568.0	6568.0	6505.4	6405.9	6323.9	6238.2	6209.6
57.5°	7384.4	7288.6	7141.2	6954.1	6719.2	6514.6	6376.4	6311.0
60°	8373.1	7912.4	7391.8	6880.4	6460.2	6113.8	5908.3	5814.3
62.5°	9032.0	7826.7	6783.7	5962.6	5358.2	4940.8	4657.0	4546.4
65°	8441.3	6527.5	5130.6	4148.3	3489.5	3064.7	2783.7	2680.5
67.5°	6182.9	4090.3	2732.1	1958.1	1434.7	1144.4	1029.3	981.3
70°	2775.4	1440.2	882.7	689.2	594.3	545.5	524.3	516.9
72.5°	836.7	605.4	510.5	460.7	422.9	399.0	381.5	379.6
75°	505.0	420.2	373.2	343.7	319.7	300.4	291.2	288.4
77.5°	352.9	308.7	286.6	265.4	246.9	232.2	223.9	217.5
80°	247.9	226.7	216.5	204.6	192.6	178.8	166.8	161.3
82.5°	165.9	161.3	161.3	153.9	143.7	130.8	106.9	101.4
85°	106.9	106.0	107.8	105.0	97.7	83.9	69.1	65.4
87.5°	49.8	50.7	56.2	55.3	53.4	44.2	35.0	33.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)