

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: P299910

Luminaire Tested: **GLNA-AF-06-LED-E1-5WQ-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299910
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
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-E1-5WQ-7060-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30189.4 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 249
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

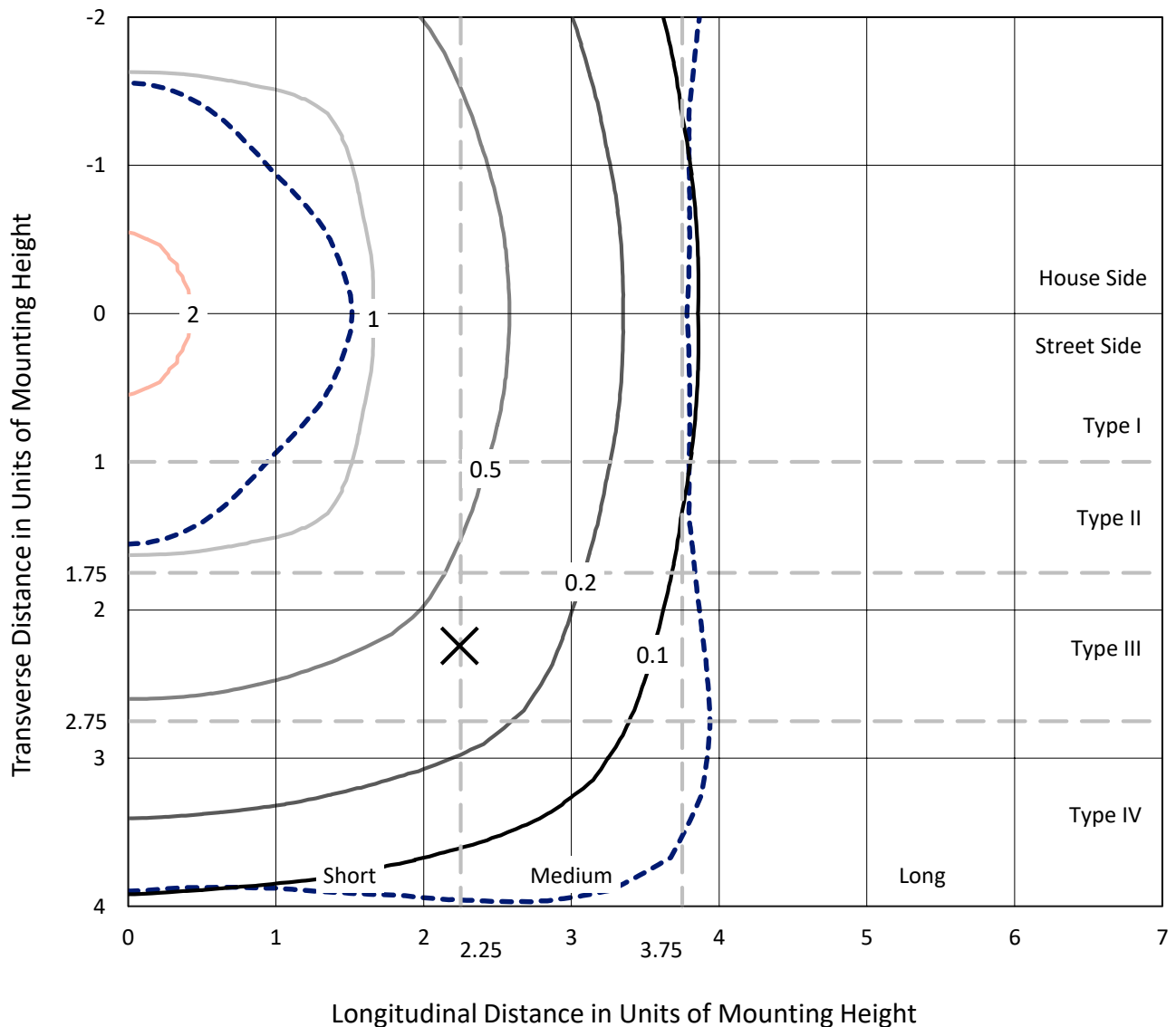


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

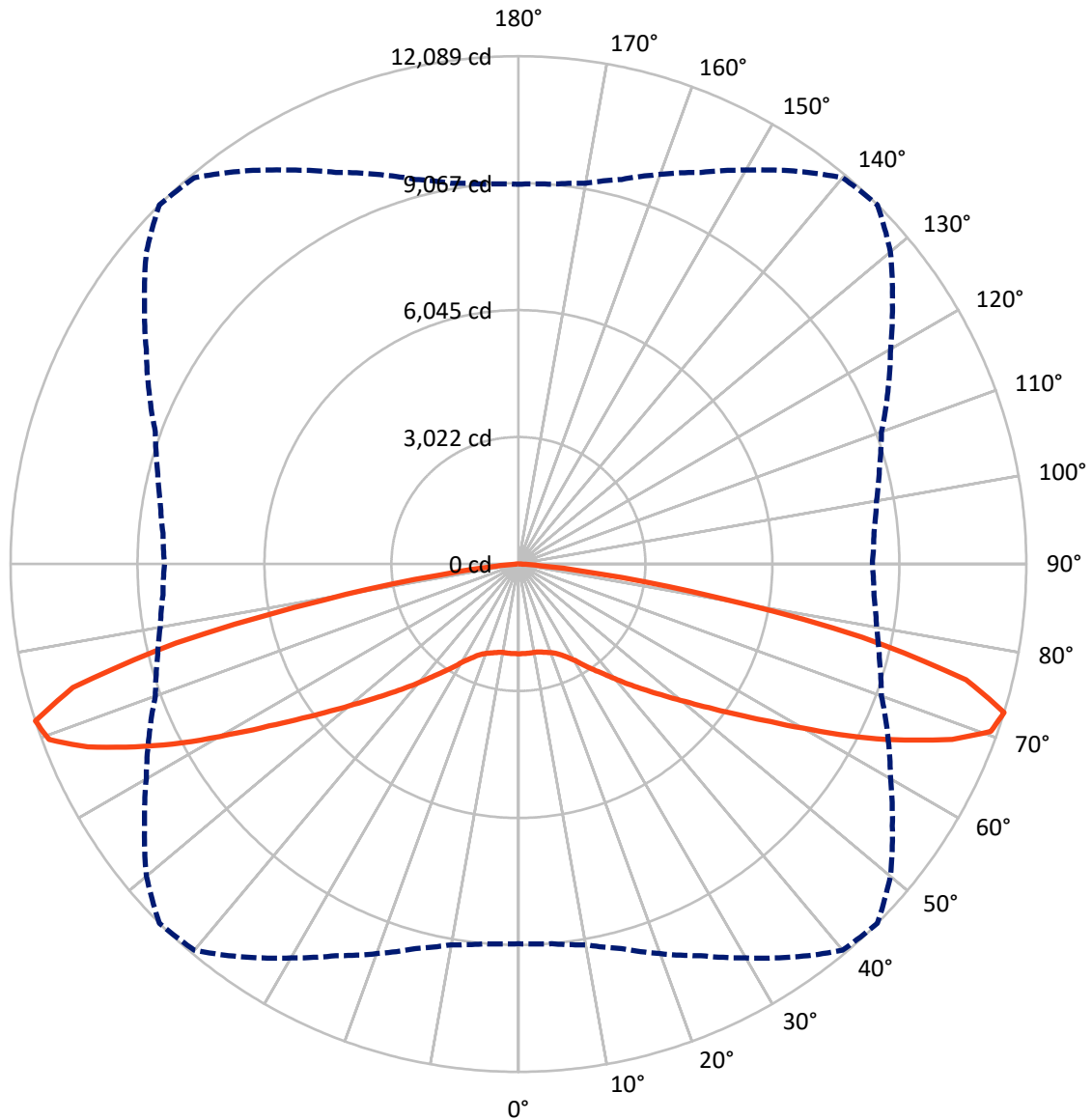


Based on 30 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15094.7	0.0	15094.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15094.7	0.0	15094.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	30189.4	0.0	30189.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.1	0.7
10°-20°	620.0	2.1
20°-30°	1133.0	3.8
30°-40°	1953.5	6.5
40°-50°	3339.5	11.1
50°-60°	5412.9	17.9
60°-70°	8979.7	29.7
70°-80°	7909.0	26.2
80°-90°	637.7	2.1
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°	30189.4	100.0
0°-180°	30189.4	100.0



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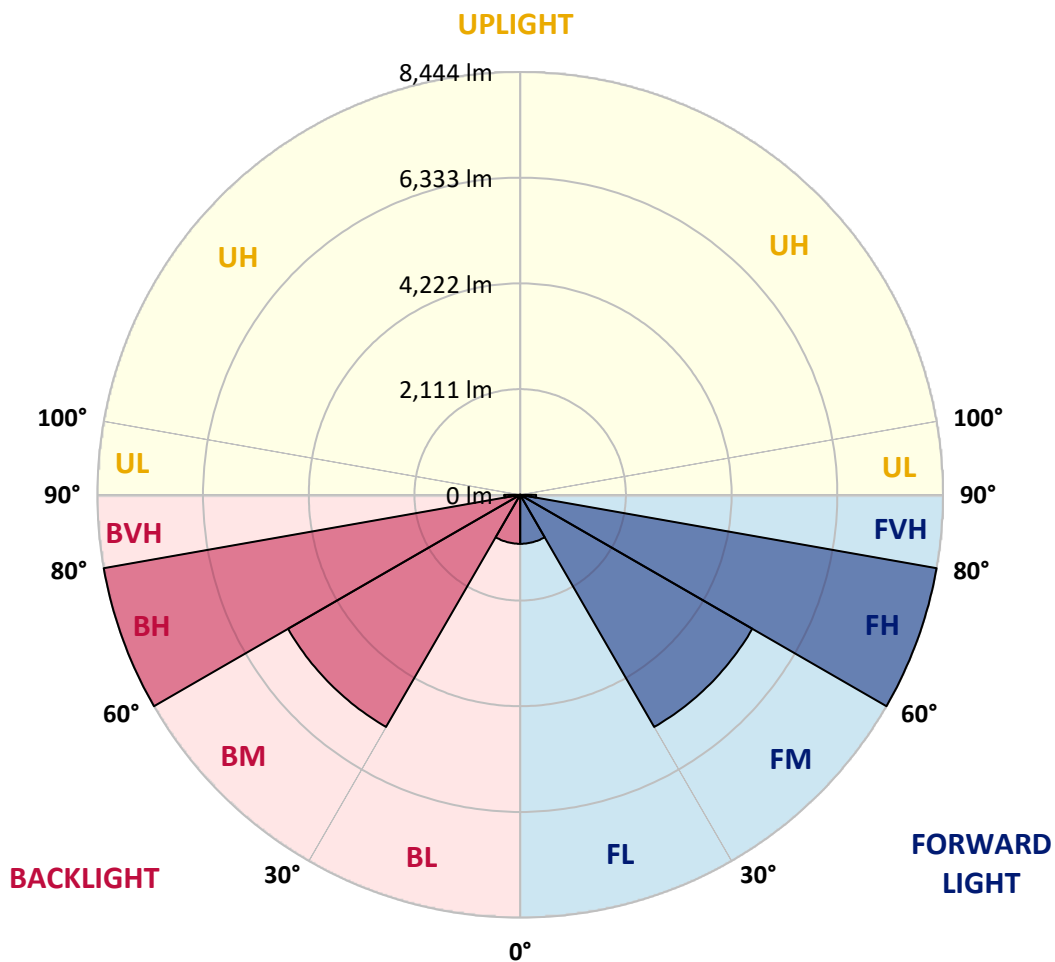
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	978.6	3.2			
FM	(30°-60°)	5352.9	17.7			
FH	(60°-80°)	8444.4	28.0			G4/12000
FVH	(80°-90°)	318.8	1.1			G3/500
BL	(0°-30°)	978.6	3.2	B2/1000		
BM	(30°-60°)	5352.9	17.7	B4/8500		
BH	(60°-80°)	8444.4	28.0	B5		G4/12000
BVH	(80°-90°)	318.8	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2137.9	2137.9	2137.9	2137.9	2137.9	2137.9	2137.9	2137.9	2137.9	2137.9	2137.9
2.5°	2137.9	2139.3	2140.7	2139.3	2139.3	2137.9	2136.5	2137.9	2136.5	2133.7	2135.1
5°	2144.8	2147.6	2147.6	2144.8	2146.2	2144.8	2142.0	2143.4	2140.7	2136.5	2136.5
7.5°	2153.1	2154.5	2154.5	2151.7	2153.1	2150.3	2147.6	2146.2	2143.4	2137.9	2133.7
10°	2165.6	2167.0	2165.6	2162.8	2162.8	2158.7	2151.7	2149.0	2143.4	2135.1	2131.0
12.5°	2179.4	2180.8	2179.4	2176.7	2175.3	2168.3	2162.8	2158.7	2154.5	2147.6	2140.7
15°	2198.8	2201.6	2198.8	2193.3	2189.1	2183.6	2180.8	2182.2	2183.6	2178.0	2171.1
17.5°	2234.8	2236.2	2232.0	2219.6	2214.0	2208.5	2208.5	2211.3	2215.4	2212.7	2205.7
20°	2301.3	2297.1	2287.4	2272.2	2265.3	2255.6	2254.2	2255.6	2255.6	2254.2	2248.7
22.5°	2384.3	2381.6	2369.1	2349.7	2340.0	2334.5	2326.2	2319.3	2317.9	2313.7	2308.2
25°	2484.0	2482.7	2467.4	2450.8	2443.9	2437.0	2430.0	2420.3	2412.0	2402.3	2396.8
27.5°	2611.4	2605.9	2583.7	2575.4	2565.7	2561.6	2551.9	2540.8	2533.9	2521.4	2514.5
30°	2751.3	2751.3	2733.3	2730.5	2730.5	2720.8	2709.7	2690.4	2677.9	2665.4	2661.3
32.5°	2891.1	2892.5	2874.5	2880.0	2884.2	2891.1	2893.9	2887.0	2878.7	2877.3	2869.0
35°	3093.3	3087.7	3069.7	3073.9	3072.5	3071.1	3071.1	3086.4	3089.1	3091.9	3075.3
37.5°	3343.9	3343.9	3325.9	3325.9	3317.6	3309.3	3298.2	3307.9	3323.1	3327.3	3316.2
40°	3630.5	3640.2	3618.1	3616.7	3619.4	3593.1	3580.7	3595.9	3605.6	3622.2	3609.8
42.5°	3968.4	3961.4	3939.3	3936.5	3921.3	3913.0	3901.9	3914.4	3929.6	3940.7	3944.8
45°	4292.4	4286.8	4261.9	4261.9	4246.7	4239.8	4245.3	4266.1	4273.0	4288.2	4303.5
47.5°	4612.2	4605.3	4588.7	4595.6	4597.0	4609.5	4627.5	4646.8	4666.2	4687.0	4693.9
50°	4939.0	4940.4	4922.4	4939.0	4959.8	4994.4	5042.9	5074.7	5114.9	5141.2	5149.5
52.5°	5236.7	5242.2	5261.6	5300.4	5341.9	5409.8	5492.9	5570.4	5636.9	5681.2	5678.4
55°	5593.9	5602.2	5649.3	5715.8	5783.6	5886.1	6009.3	6146.4	6257.2	6320.9	6280.7
57.5°	6050.9	6068.9	6121.5	6211.5	6312.6	6445.5	6614.4	6820.7	6992.4	7078.3	7013.2
60°	6678.1	6689.2	6752.9	6852.6	6974.4	7139.2	7364.9	7641.8	7884.1	7997.7	7922.9
62.5°	7504.7	7525.5	7576.7	7677.8	7802.4	7989.4	8264.9	8611.1	8912.9	9070.8	8901.8
65°	8492.0	8558.4	8601.4	8703.8	8820.1	9018.1	9306.2	9677.2	10001.2	10105.1	9909.9
67.5°	9469.5	9527.7	9602.5	9720.2	9837.9	10060.8	10328.0	10688.0	11043.9	11138.0	10834.8
70°	9897.4	9930.6	10046.9	10207.6	10433.2	10696.3	11005.1	11409.4	11849.7	11927.3	11542.3
72.5°	9040.3	9073.5	9203.7	9476.5	9869.7	10287.9	10826.5	11420.5	12002.0	12089.3	11559.0
75°	6837.3	6783.3	6975.8	7337.2	7867.5	8450.4	9203.7	10055.2	10895.7	11005.1	10372.3
77.5°	3533.6	3526.7	3672.1	4120.7	4753.5	5416.7	6246.1	7208.4	8030.9	8363.2	7848.1
80°	995.6	1006.6	1075.9	1298.8	1668.5	2147.6	2795.6	3697.0	4369.9	4713.3	4425.3
82.5°	390.5	420.9	447.2	488.8	537.2	607.9	811.4	1207.4	1620.0	1935.7	1585.4
85°	139.8	149.5	211.8	250.6	254.8	268.6	306.0	357.2	430.6	513.7	422.3
87.5°	52.6	58.2	67.8	112.2	110.8	101.1	123.2	128.8	96.9	88.6	109.4
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°	2137.9	2137.9	2137.9	2137.9	2137.9	2137.9	2137.9	2137.9
2.5°	2132.3	2133.7	2133.7	2135.1	2136.5	2136.5	2139.3	2139.3
5°	2133.7	2133.7	2131.0	2132.3	2131.0	2131.0	2132.3	2132.3
7.5°	2131.0	2129.6	2126.8	2125.4	2122.7	2122.7	2122.7	2122.7
10°	2126.8	2125.4	2122.7	2121.3	2119.9	2119.9	2119.9	2119.9
12.5°	2137.9	2133.7	2131.0	2129.6	2129.6	2129.6	2129.6	2129.6
15°	2167.0	2157.3	2150.3	2150.3	2151.7	2154.5	2154.5	2157.3
17.5°	2203.0	2191.9	2185.0	2179.4	2182.2	2186.3	2189.1	2191.9
20°	2245.9	2240.3	2230.7	2225.1	2225.1	2230.7	2233.4	2234.8
22.5°	2305.4	2301.3	2297.1	2290.2	2290.2	2293.0	2298.5	2298.5
25°	2394.0	2391.3	2388.5	2383.0	2381.6	2381.6	2384.3	2387.1
27.5°	2504.8	2506.2	2503.4	2502.0	2497.9	2496.5	2500.7	2499.3
30°	2653.0	2659.9	2666.8	2661.3	2654.4	2650.2	2646.0	2640.5
32.5°	2853.7	2845.4	2839.9	2830.2	2817.7	2806.7	2798.4	2788.7
35°	3043.4	3029.6	3024.0	3032.4	3031.0	3024.0	3014.4	3006.0
37.5°	3276.1	3273.3	3276.1	3291.3	3288.5	3295.4	3276.1	3274.7
40°	3569.6	3572.4	3591.8	3609.8	3619.4	3629.1	3618.1	3607.0
42.5°	3910.2	3908.8	3915.8	3940.7	3957.3	3968.4	3944.8	3942.1
45°	4270.2	4260.5	4266.1	4286.8	4303.5	4315.9	4289.6	4289.6
47.5°	4666.2	4649.6	4631.6	4655.2	4664.8	4673.2	4652.4	4645.5
50°	5107.9	5073.3	5034.5	5044.2	5044.2	5041.5	5015.2	5013.8
52.5°	5614.7	5551.0	5480.4	5454.1	5438.9	5422.2	5376.5	5354.4
55°	6197.6	6102.1	5991.3	5923.5	5887.5	5841.8	5765.6	5744.9
57.5°	6878.9	6729.3	6538.3	6455.2	6374.9	6300.1	6215.6	6192.1
60°	7686.1	7466.0	7212.6	7058.9	6971.7	6899.7	6812.4	6808.3
62.5°	8586.1	8238.6	7952.0	7813.5	7749.8	7686.1	7603.0	7614.1
65°	9501.4	9138.6	8870.0	8757.8	8698.3	8645.7	8562.6	8575.1
67.5°	10404.2	10070.5	9775.5	9660.6	9594.2	9527.7	9452.9	9465.4
70°	11052.2	10638.2	10305.9	10051.1	9891.9	9711.9	9595.5	9566.5
72.5°	10866.6	10228.3	9700.8	9195.4	8899.1	8658.1	8494.8	8424.1
75°	9404.5	8532.1	7853.7	7233.3	6884.4	6600.6	6394.3	6265.5
77.5°	6984.1	6003.8	5202.1	4487.6	3922.7	3543.3	3276.1	3103.0
80°	3823.0	2907.7	2125.4	1494.0	1098.0	912.5	805.9	754.6
82.5°	1190.8	768.5	566.3	488.8	454.2	434.8	402.9	351.7
85°	379.4	332.3	308.8	294.9	281.1	245.1	168.9	153.7
87.5°	146.8	150.9	149.5	141.2	144.0	103.8	83.1	73.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)