

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: P191693

Luminaire Tested: **GLEON-AF-05-LED-E1-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191693
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: GLEON-AF-05-LED-E1-5WQ-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31336 lumens
Efficiency: N/A
Efficacy: 112.3 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

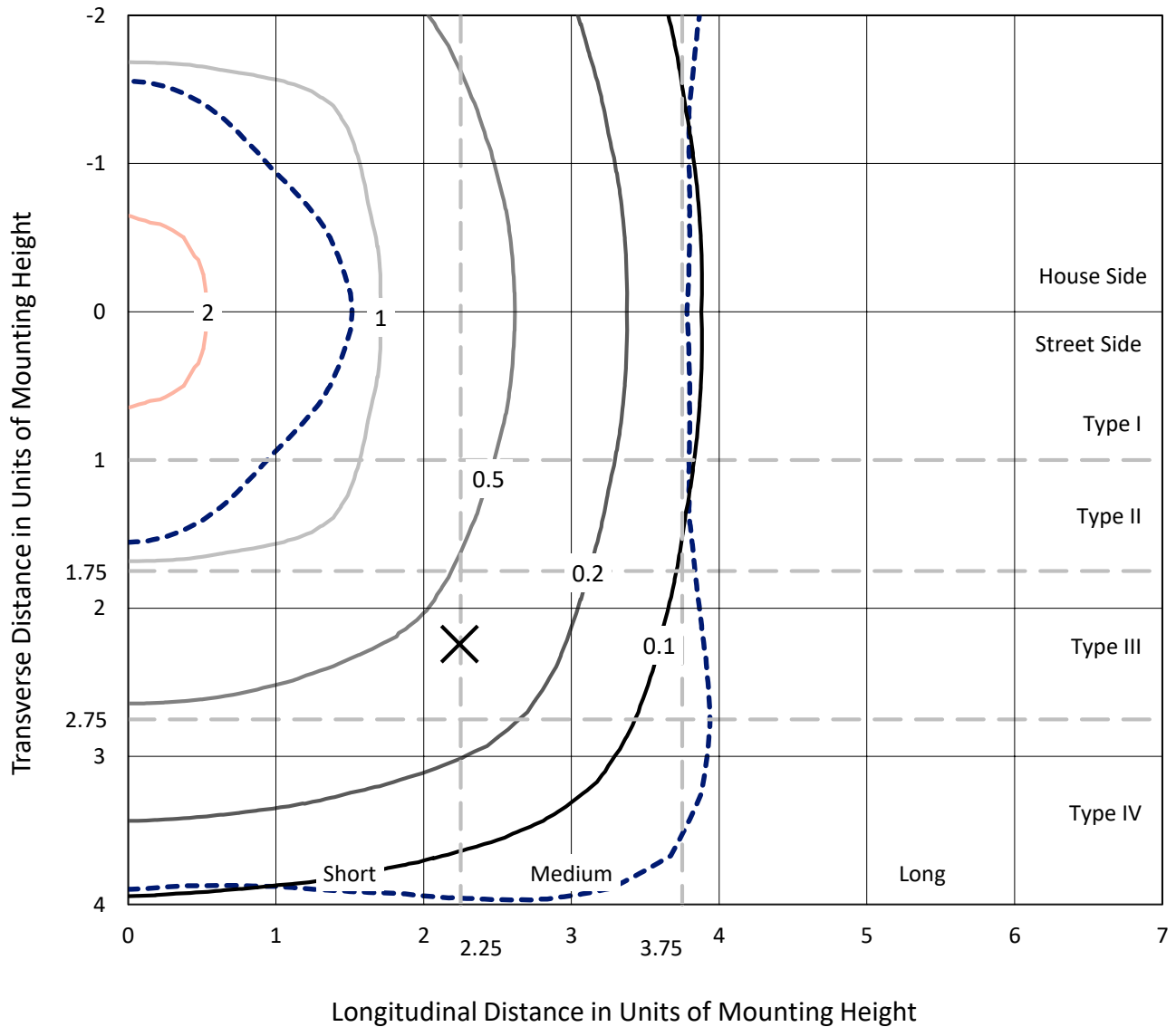
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

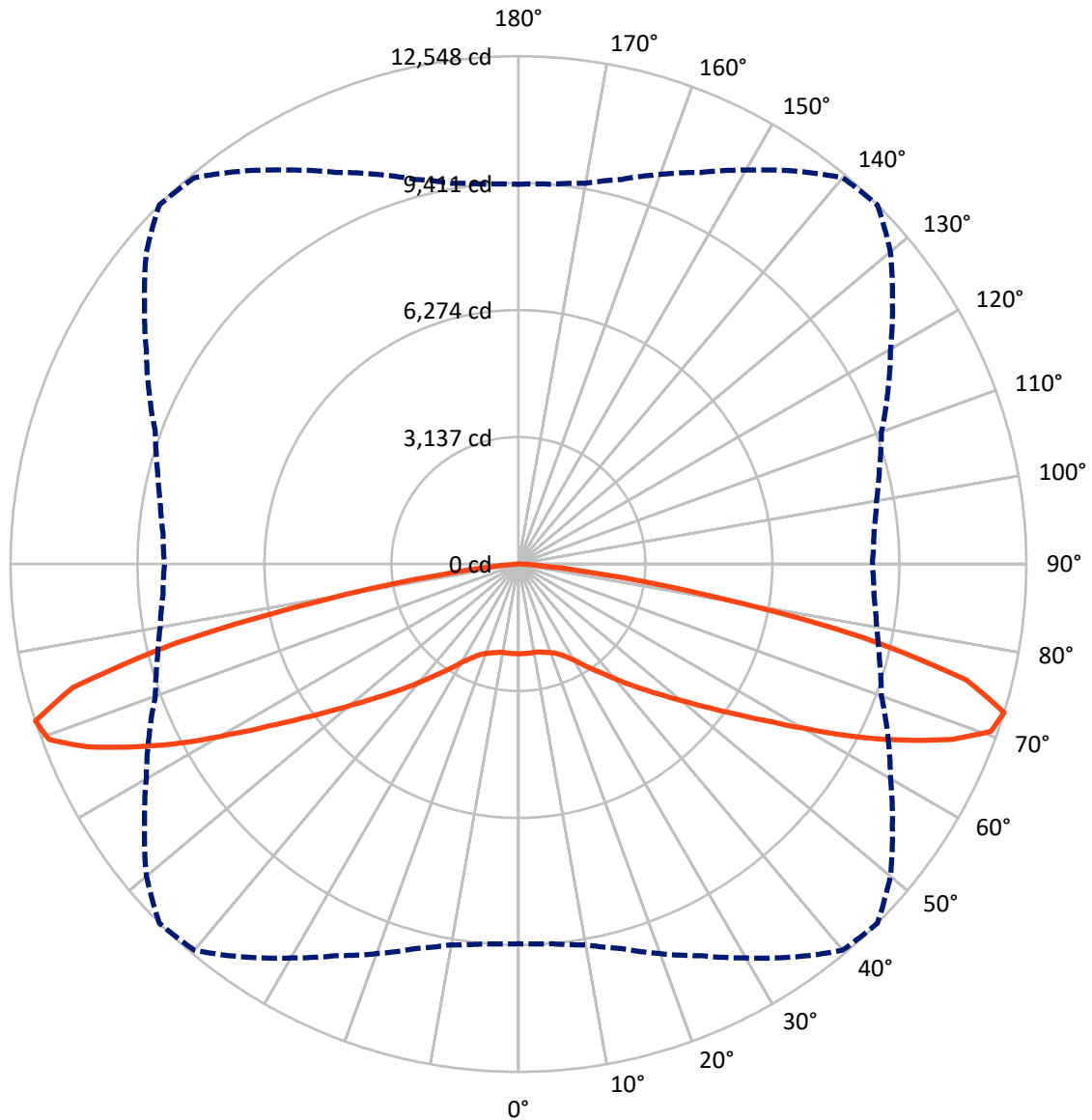
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.5 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	15668.0	0.0	15668.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15668.0	0.0	15668.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31336.0	0.0	31336.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.9	0.7
10°-20°	643.6	2.1
20°-30°	1176.0	3.8
30°-40°	2027.7	6.5
40°-50°	3466.3	11.1
50°-60°	5618.4	17.9
60°-70°	9320.8	29.7
70°-80°	8209.4	26.2
80°-90°	661.9	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°	31336.0	100.0
0°-180°	31336.0	100.0



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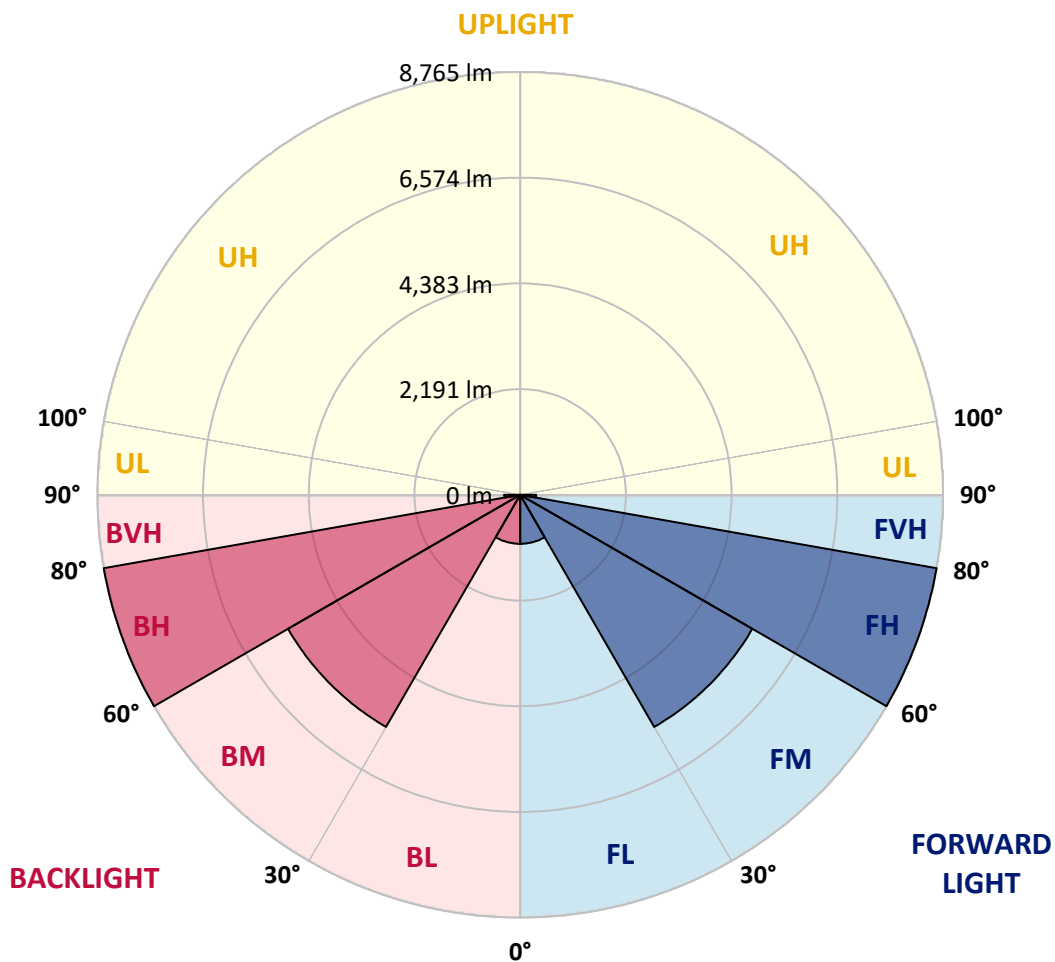
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1015.7	3.2			
FM	(30°-60°)	5556.2	17.7			
FH	(60°-80°)	8765.1	28.0			G4/12000
FVH	(80°-90°)	331.0	1.1			G3/500
BL	(0°-30°)	1015.7	3.2	B3/2500		
BM	(30°-60°)	5556.2	17.7	B4/8500		
BH	(60°-80°)	8765.1	28.0	B5		G4/12000
BVH	(80°-90°)	331.0	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°	2219.1	2219.1	2219.1	2219.1	2219.1	2219.1	2219.1	2219.1	2219.1	2219.1	2219.1
2.5°	2219.1	2220.5	2222.0	2220.5	2220.5	2219.1	2217.6	2219.1	2217.6	2214.8	2216.2
5°	2226.3	2229.1	2229.1	2226.3	2227.7	2226.3	2223.4	2224.8	2222.0	2217.6	2217.6
7.5°	2234.9	2236.3	2236.3	2233.4	2234.9	2232.0	2229.1	2227.7	2224.8	2219.1	2214.8
10°	2247.8	2249.3	2247.8	2244.9	2244.9	2240.6	2233.4	2230.6	2224.8	2216.2	2211.9
12.5°	2262.2	2263.6	2262.2	2259.3	2257.9	2250.7	2244.9	2240.6	2236.3	2229.1	2222.0
15°	2282.3	2285.2	2282.3	2276.6	2272.3	2266.5	2263.6	2265.1	2266.5	2260.8	2253.6
17.5°	2319.7	2321.1	2316.8	2303.9	2298.1	2292.4	2292.4	2295.2	2299.6	2296.7	2289.5
20°	2388.7	2384.4	2374.3	2358.5	2351.3	2341.2	2339.8	2341.2	2341.2	2339.8	2334.1
22.5°	2474.9	2472.0	2459.1	2439.0	2428.9	2423.2	2414.5	2407.4	2405.9	2401.6	2395.9
25°	2578.4	2576.9	2561.1	2543.9	2536.7	2529.5	2522.3	2512.3	2503.6	2493.6	2487.8
27.5°	2710.6	2704.9	2681.9	2673.2	2663.2	2658.9	2648.8	2637.3	2630.1	2617.2	2610.0
30°	2855.8	2855.8	2837.1	2834.2	2834.2	2824.1	2812.6	2792.5	2779.6	2766.7	2762.3
32.5°	3000.9	3002.4	2983.7	2989.4	2993.7	3000.9	3003.8	2996.6	2988.0	2986.6	2977.9
35°	3210.8	3205.0	3186.3	3190.6	3189.2	3187.8	3187.8	3203.6	3206.4	3209.3	3192.1
37.5°	3470.9	3470.9	3452.2	3452.2	3443.6	3435.0	3423.5	3433.5	3449.3	3453.7	3442.2
40°	3768.4	3778.5	3755.5	3754.0	3756.9	3729.6	3716.7	3732.5	3742.5	3759.8	3746.8
42.5°	4119.1	4111.9	4088.9	4086.0	4070.2	4061.6	4050.1	4063.0	4078.8	4090.3	4094.7
45°	4455.4	4449.6	4423.8	4423.8	4408.0	4400.8	4406.5	4428.1	4435.3	4451.1	4466.9
47.5°	4787.4	4780.2	4763.0	4770.2	4771.6	4784.5	4803.2	4823.3	4843.4	4865.0	4872.2
50°	5126.6	5128.0	5109.3	5126.6	5148.1	5184.1	5234.4	5267.4	5309.1	5336.4	5345.0
52.5°	5435.6	5441.3	5461.5	5501.7	5544.8	5615.2	5701.5	5782.0	5850.9	5896.9	5894.1
55°	5806.4	5815.0	5863.9	5932.9	6003.3	6109.6	6237.6	6379.8	6494.8	6560.9	6519.3
57.5°	6280.7	6299.4	6354.0	6447.4	6552.3	6690.3	6865.6	7079.8	7258.0	7347.1	7279.5
60°	6931.7	6943.2	7009.3	7112.8	7239.3	7410.3	7644.6	7932.0	8183.6	8301.4	8223.8
62.5°	7789.8	7811.3	7864.5	7969.4	8098.8	8292.8	8578.8	8938.1	9251.4	9415.3	9239.9
65°	8814.5	8883.5	8928.0	9034.4	9155.1	9360.6	9659.6	10044.8	10381.1	10488.9	10286.2
67.5°	9829.2	9889.5	9967.2	10089.3	10211.5	10442.9	10720.3	11093.9	11463.3	11561.0	11246.3
70°	10273.3	10307.8	10428.5	10595.2	10829.5	11102.6	11423.1	11842.7	12299.8	12380.3	11980.7
72.5°	9383.6	9418.1	9553.2	9836.4	10244.5	10678.6	11237.7	11854.2	12457.9	12548.4	11998.0
75°	7097.0	7041.0	7240.7	7615.9	8166.3	8771.4	9553.2	10437.1	11309.5	11423.1	10766.3
77.5°	3667.8	3660.6	3811.5	4277.2	4934.0	5622.4	6483.3	7482.2	8335.9	8680.8	8146.2
80°	1033.4	1044.9	1116.7	1348.1	1731.9	2229.1	2901.8	3837.4	4535.9	4892.3	4593.4
82.5°	405.3	436.9	464.2	507.3	557.6	630.9	842.2	1253.3	1681.6	2009.2	1645.6
85°	145.2	155.2	219.9	260.1	264.4	278.8	317.6	370.8	447.0	533.2	438.4
87.5°	54.6	60.4	70.4	116.4	115.0	104.9	127.9	133.7	100.6	92.0	113.5
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°	2219.1	2219.1	2219.1	2219.1	2219.1	2219.1	2219.1	2219.1
2.5°	2213.3	2214.8	2214.8	2216.2	2217.6	2217.6	2220.5	2220.5
5°	2214.8	2214.8	2211.9	2213.3	2211.9	2211.9	2213.3	2213.3
7.5°	2211.9	2210.5	2207.6	2206.1	2203.3	2203.3	2203.3	2203.3
10°	2207.6	2206.1	2203.3	2201.8	2200.4	2200.4	2200.4	2200.4
12.5°	2219.1	2214.8	2211.9	2210.5	2210.5	2210.5	2210.5	2210.5
15°	2249.3	2239.2	2232.0	2232.0	2233.4	2236.3	2236.3	2239.2
17.5°	2286.6	2275.1	2267.9	2262.2	2265.1	2269.4	2272.3	2275.1
20°	2331.2	2325.4	2315.4	2309.6	2309.6	2315.4	2318.2	2319.7
22.5°	2393.0	2388.7	2384.4	2377.2	2377.2	2380.0	2385.8	2385.8
25°	2485.0	2482.1	2479.2	2473.5	2472.0	2472.0	2474.9	2477.8
27.5°	2599.9	2601.4	2598.5	2597.1	2592.8	2591.3	2595.6	2594.2
30°	2753.7	2760.9	2768.1	2762.3	2755.2	2750.8	2746.5	2740.8
32.5°	2962.1	2953.5	2947.7	2937.7	2924.8	2913.3	2904.6	2894.6
35°	3159.0	3144.6	3138.9	3147.5	3146.1	3138.9	3128.8	3120.2
37.5°	3400.5	3397.6	3400.5	3416.3	3413.4	3420.6	3400.5	3399.0
40°	3705.2	3708.0	3728.2	3746.8	3756.9	3767.0	3755.5	3744.0
42.5°	4058.7	4057.3	4064.5	4090.3	4107.6	4119.1	4094.7	4091.8
45°	4432.4	4422.3	4428.1	4449.6	4466.9	4479.8	4452.5	4452.5
47.5°	4843.4	4826.2	4807.5	4832.0	4842.0	4850.6	4829.1	4821.9
50°	5301.9	5266.0	5225.8	5235.8	5235.8	5232.9	5205.6	5204.2
52.5°	5827.9	5761.8	5688.5	5661.2	5645.4	5628.2	5580.7	5557.7
55°	6433.0	6333.9	6218.9	6148.4	6111.1	6063.7	5984.6	5963.0
57.5°	7140.1	6984.9	6786.6	6700.3	6617.0	6539.4	6451.7	6427.3
60°	7978.0	7749.5	7486.5	7327.0	7236.4	7161.7	7071.1	7066.8
62.5°	8912.2	8551.5	8254.0	8110.3	8044.1	7978.0	7891.8	7903.3
65°	9862.2	9485.7	9206.9	9090.4	9028.6	8974.0	8887.8	8900.7
67.5°	10799.3	10452.9	10146.8	10027.5	9958.5	9889.5	9811.9	9824.9
70°	11471.9	11042.2	10697.3	10432.8	10267.5	10080.7	9960.0	9929.8
72.5°	11279.3	10616.8	10069.2	9544.6	9237.0	8987.0	8817.4	8744.1
75°	9761.6	8856.2	8151.9	7508.1	7145.9	6851.3	6637.1	6503.4
77.5°	7249.4	6231.8	5399.7	4658.0	4071.7	3677.9	3400.5	3220.8
80°	3968.2	3018.2	2206.1	1550.8	1139.7	947.1	836.5	783.3
82.5°	1236.0	797.7	587.8	507.3	471.4	451.3	418.2	365.1
85°	393.8	344.9	320.5	306.1	291.8	254.4	175.3	159.5
87.5°	152.3	156.7	155.2	146.6	149.5	107.8	86.2	76.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)