

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: P193353

Luminaire Tested: **GLEON-AF-05-LED-E1-5MQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193353
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-E1-5MQ-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25502 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

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

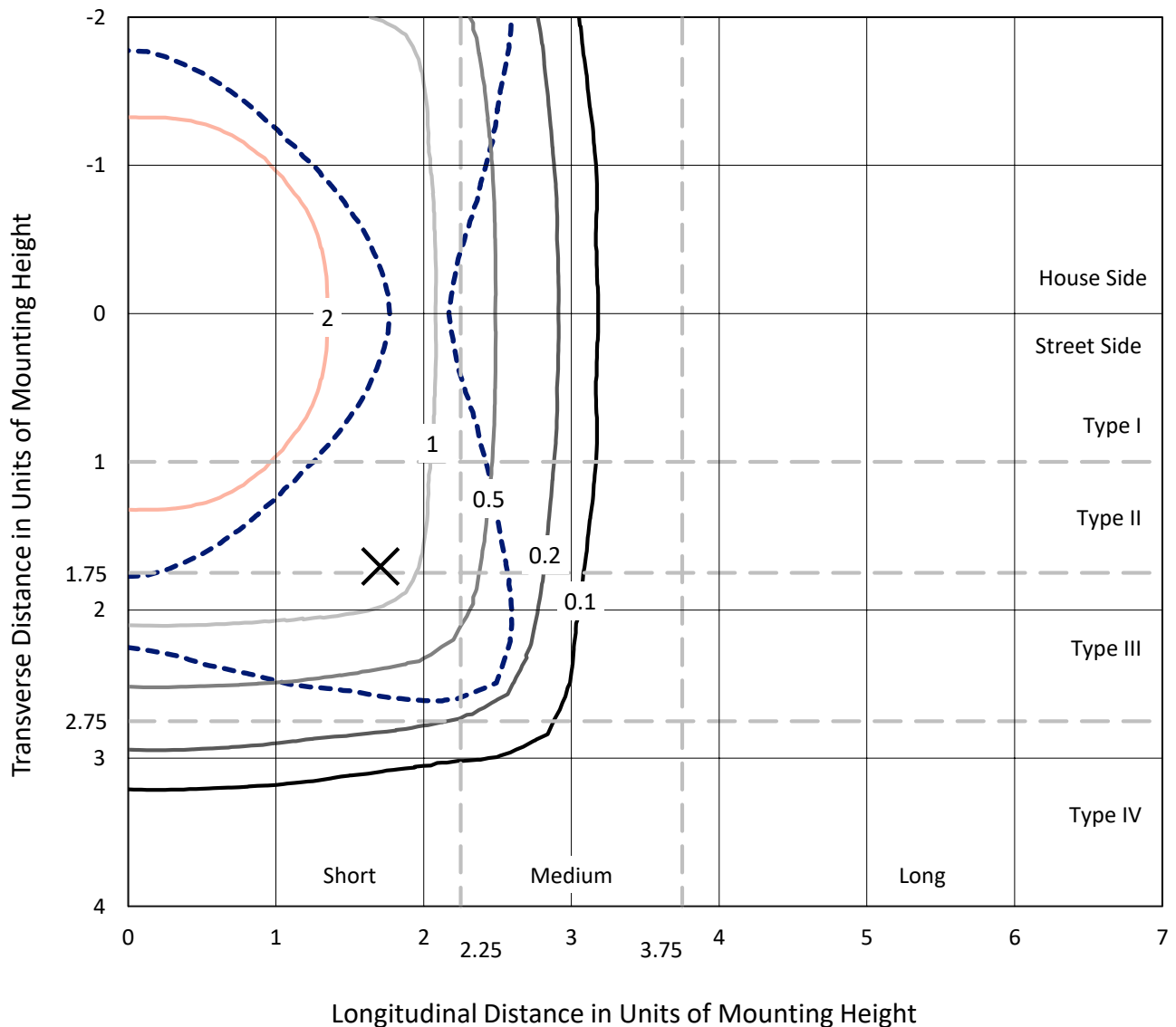


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Iso-Footcandle Lines of Horizontal Illumination

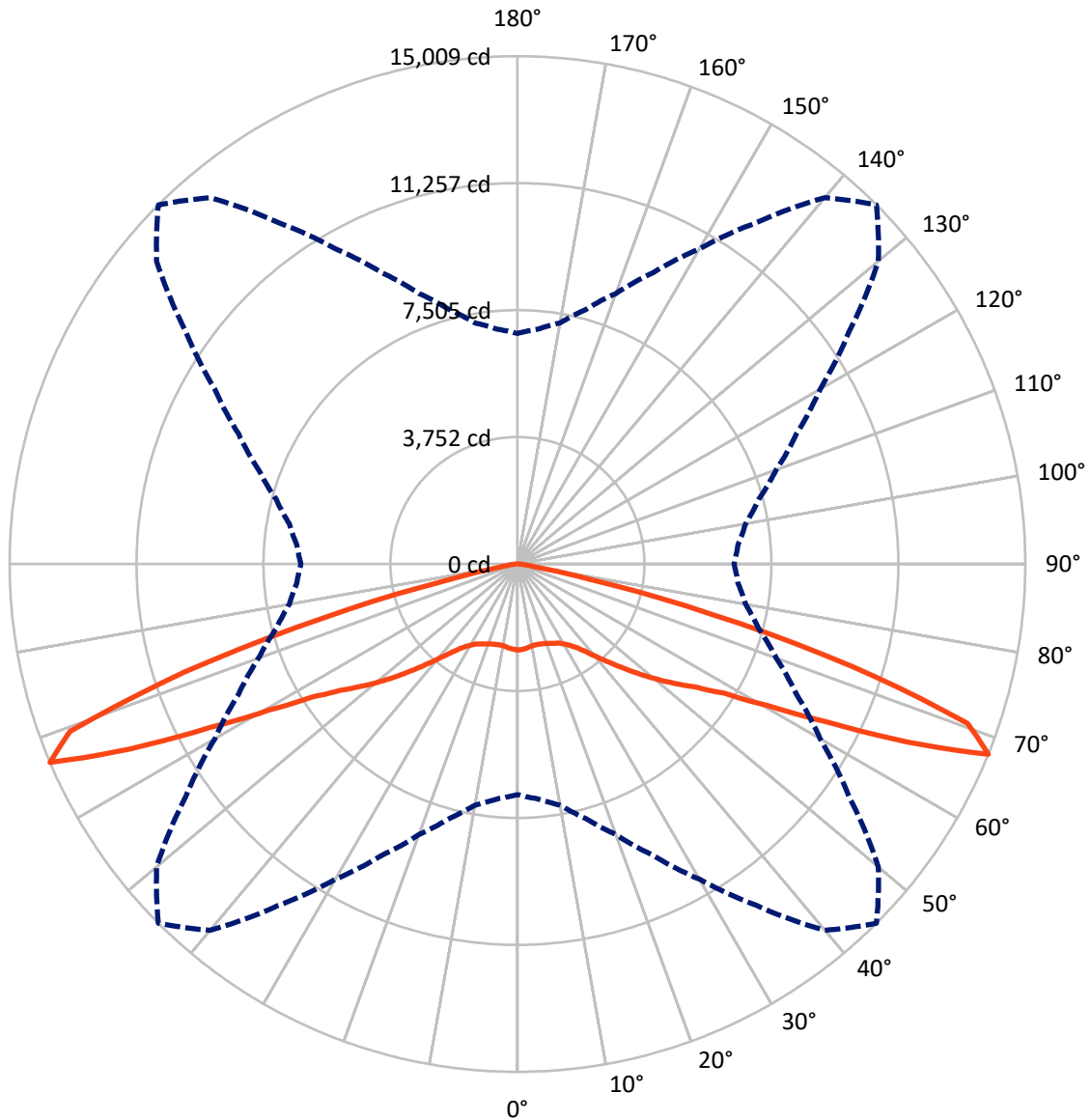
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12751.0	0.0	12751.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12751.0	0.0	12751.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25502.0	0.0	25502.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.9	0.9
10°-20°	690.2	2.7
20°-30°	1173.4	4.6
30°-40°	1918.1	7.5
40°-50°	3424.2	13.4
50°-60°	5773.3	22.6
60°-70°	8959.2	35.1
70°-80°	3147.9	12.3
80°-90°	177.9	0.7
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°	25502.0	100.0
0°-180°	25502.0	100.0



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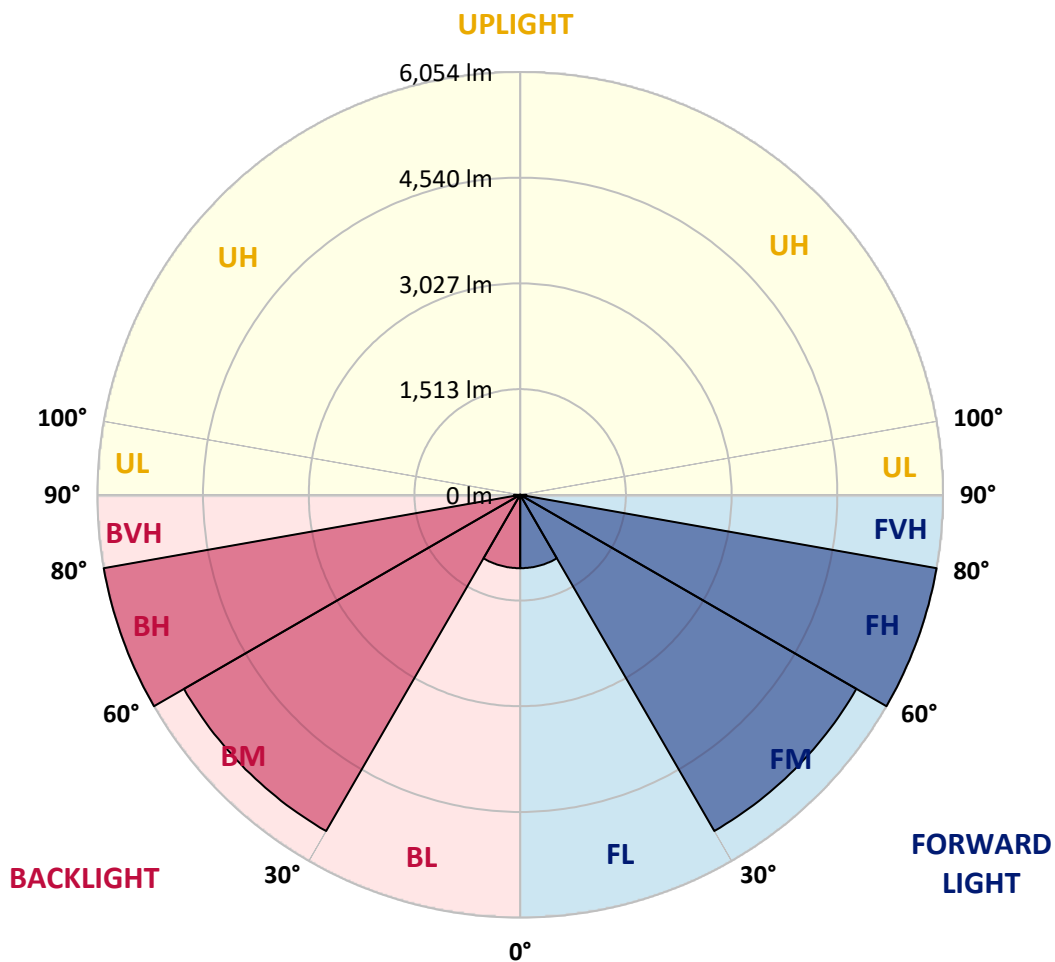
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1050.7	4.1			
FM	(30°-60°)	5557.8	21.8			
FH	(60°-80°)	6053.6	23.7			G3/7500
FVH	(80°-90°)	88.9	0.3			G1/100
BL	(0°-30°)	1050.7	4.1	B3/2500		
BM	(30°-60°)	5557.8	21.8	B4/8500		
BH	(60°-80°)	6053.6	23.7	B5		G3/7500
BVH	(80°-90°)	88.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2541.4	2541.4	2541.4	2541.4	2541.4	2541.4	2541.4	2541.4	2541.4	2541.4	2541.4
2.5°	2532.0	2534.3	2534.3	2534.3	2533.2	2533.2	2530.8	2533.2	2532.0	2528.5	2529.7
5°	2510.9	2513.2	2513.2	2512.1	2515.6	2514.4	2510.9	2513.2	2512.1	2509.7	2510.9
7.5°	2480.4	2483.9	2483.9	2482.7	2486.3	2485.1	2482.7	2483.9	2483.9	2480.4	2480.4
10°	2446.4	2448.7	2448.7	2447.6	2453.4	2453.4	2452.3	2455.8	2456.9	2453.4	2451.1
12.5°	2414.7	2418.2	2418.2	2422.9	2428.8	2431.1	2437.0	2441.7	2446.4	2445.2	2440.5
15°	2396.0	2398.3	2403.0	2408.9	2418.2	2426.5	2435.8	2446.4	2455.8	2458.1	2451.1
17.5°	2384.2	2387.7	2394.8	2403.0	2415.9	2430.0	2444.0	2458.1	2471.0	2475.7	2467.5
20°	2380.7	2383.1	2390.1	2404.2	2421.8	2442.9	2462.8	2479.2	2496.8	2502.7	2496.8
22.5°	2387.7	2392.4	2400.7	2417.1	2440.5	2467.5	2491.0	2513.2	2535.5	2546.1	2537.9
25°	2419.4	2424.1	2434.7	2455.8	2481.6	2509.7	2536.7	2562.5	2582.4	2593.0	2587.1
27.5°	2478.1	2483.9	2496.8	2517.9	2546.1	2576.6	2605.9	2627.0	2643.4	2646.9	2639.9
30°	2566.0	2578.9	2594.2	2617.6	2650.4	2676.2	2705.6	2724.3	2744.3	2744.3	2738.4
32.5°	2703.2	2716.1	2732.5	2754.8	2780.6	2808.8	2834.6	2851.0	2872.1	2873.3	2859.2
35°	2908.5	2914.3	2928.4	2942.5	2965.9	2990.6	3012.8	3023.4	3041.0	3042.2	3029.3
37.5°	3179.4	3180.5	3189.9	3194.6	3215.7	3242.7	3263.8	3270.8	3287.3	3284.9	3272.0
40°	3494.8	3500.7	3504.2	3511.3	3533.5	3559.3	3581.6	3585.1	3602.7	3599.2	3582.8
42.5°	3859.6	3861.9	3881.9	3892.4	3913.5	3926.4	3954.6	3958.1	3979.2	3969.8	3951.0
45°	4268.9	4290.0	4308.7	4329.8	4352.1	4367.4	4389.7	4385.0	4399.0	4385.0	4374.4
47.5°	4699.3	4714.5	4756.7	4789.6	4825.9	4838.8	4870.5	4856.4	4870.5	4850.6	4847.0
50°	5173.1	5200.0	5236.4	5273.9	5312.6	5333.7	5374.8	5357.2	5376.0	5357.2	5346.6
52.5°	5639.8	5646.9	5726.6	5781.7	5835.7	5860.3	5884.9	5876.7	5877.9	5876.7	5866.2
55°	6083.1	6099.6	6179.3	6254.4	6348.2	6417.4	6459.6	6454.9	6444.3	6433.8	6416.2
57.5°	6582.7	6599.1	6690.6	6783.3	6890.0	6988.5	7074.1	7162.1	7196.1	7205.5	7166.8
60°	7258.2	7257.1	7379.0	7491.6	7644.1	7790.7	7978.3	8169.5	8388.8	8490.8	8356.0
62.5°	7945.5	7973.6	8149.5	8348.9	8663.2	8969.3	9315.3	9655.4	10002.5	10285.1	9984.9
65°	7863.4	7971.3	8232.8	8684.3	9264.8	9954.4	10700.3	11489.6	12202.6	12692.8	12142.8
67.5°	6814.9	6968.6	7234.8	7783.6	8509.6	9504.1	10756.6	12317.6	14131.8	15009.0	13921.9
70°	4939.7	5113.3	5392.4	5928.3	6647.2	7592.5	8952.9	10827.0	13228.8	14113.1	12915.7
72.5°	2458.1	2551.9	2724.3	3065.6	3609.8	4376.8	5610.5	7411.9	9536.9	10348.5	9254.3
75°	835.0	878.4	907.7	1019.1	1191.5	1492.9	2106.3	3240.3	4943.2	5926.0	4872.8
77.5°	482.0	483.2	503.1	523.1	552.4	585.2	667.3	876.1	1515.2	2152.0	1568.0
80°	312.0	310.8	327.2	342.4	362.4	378.8	383.5	405.8	467.9	554.7	496.1
82.5°	161.8	181.8	218.1	238.1	275.6	282.6	273.3	265.0	280.3	290.8	297.9
85°	89.1	77.4	116.1	150.1	166.5	168.9	168.9	159.5	165.4	161.8	175.9
87.5°	41.0	37.5	45.7	73.9	78.6	66.8	70.4	62.2	44.6	43.4	49.3
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°	2541.4	2541.4	2541.4	2541.4	2541.4	2541.4	2541.4	2541.4
2.5°	2529.7	2530.8	2530.8	2534.3	2535.5	2537.9	2540.2	2541.4
5°	2509.7	2513.2	2510.9	2514.4	2514.4	2516.8	2516.8	2517.9
7.5°	2480.4	2483.9	2483.9	2483.9	2482.7	2486.3	2486.3	2486.3
10°	2449.9	2452.3	2451.1	2448.7	2446.4	2449.9	2448.7	2447.6
12.5°	2440.5	2434.7	2430.0	2427.6	2422.9	2424.1	2420.6	2420.6
15°	2446.4	2435.8	2427.6	2424.1	2419.4	2417.1	2414.7	2415.9
17.5°	2461.6	2448.7	2438.2	2432.3	2426.5	2422.9	2418.2	2419.4
20°	2488.6	2473.4	2458.1	2446.4	2435.8	2430.0	2426.5	2425.3
22.5°	2528.5	2506.2	2483.9	2466.3	2452.3	2444.0	2440.5	2438.2
25°	2574.2	2549.6	2523.8	2503.9	2489.8	2479.2	2472.2	2472.2
27.5°	2631.7	2611.7	2588.3	2564.8	2551.9	2541.4	2536.7	2534.3
30°	2727.9	2709.1	2690.3	2668.0	2651.6	2641.1	2632.9	2625.8
32.5°	2851.0	2835.7	2820.5	2804.1	2788.8	2774.8	2761.9	2756.0
35°	3024.6	3012.8	3002.3	2983.5	2977.7	2969.4	2962.4	2956.5
37.5°	3263.8	3259.1	3259.1	3239.2	3234.5	3231.0	3223.9	3225.1
40°	3578.1	3582.8	3576.9	3569.9	3566.4	3557.0	3557.0	3565.2
42.5°	3949.9	3953.4	3966.3	3954.6	3967.5	3955.7	3948.7	3954.6
45°	4381.5	4394.4	4420.2	4408.4	4416.6	4396.7	4372.1	4373.2
47.5°	4865.8	4877.5	4888.1	4879.9	4881.0	4848.2	4815.4	4807.2
50°	5368.9	5373.6	5379.5	5367.7	5370.1	5333.7	5296.2	5297.4
52.5°	5866.2	5888.5	5911.9	5880.2	5873.2	5832.2	5779.4	5758.3
55°	6435.0	6466.6	6439.7	6384.5	6329.4	6274.3	6205.1	6193.4
57.5°	7136.3	7082.3	6997.9	6893.5	6817.3	6739.9	6669.5	6640.2
60°	8112.0	7909.1	7756.7	7601.9	7504.5	7409.5	7316.9	7302.8
62.5°	9491.2	9140.5	8836.8	8516.6	8255.1	8051.0	7888.0	7842.3
65°	11219.8	10390.7	9671.8	9001.0	8418.1	7978.3	7701.5	7579.6
67.5°	11963.4	10326.2	9093.6	8141.3	7379.0	6846.6	6547.5	6398.6
70°	10512.7	8563.5	7223.1	6269.6	5575.3	5007.7	4736.8	4577.3
72.5°	7232.4	5447.5	4307.6	3515.9	2961.2	2486.3	2298.6	2284.5
75°	3247.4	2150.9	1482.4	1142.3	961.7	836.2	797.5	768.2
77.5°	908.9	672.0	599.3	560.6	523.1	479.7	463.2	466.8
80°	442.1	417.5	401.1	376.5	342.4	306.1	289.7	296.7
82.5°	293.2	289.7	300.2	282.6	233.4	198.2	166.5	152.5
85°	178.3	180.6	184.1	185.3	157.2	110.2	75.1	84.4
87.5°	70.4	80.9	88.0	91.5	85.6	52.8	42.2	43.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)