

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: P529127

Luminaire Tested: **GALN-SA4B-730-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-730-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12242 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

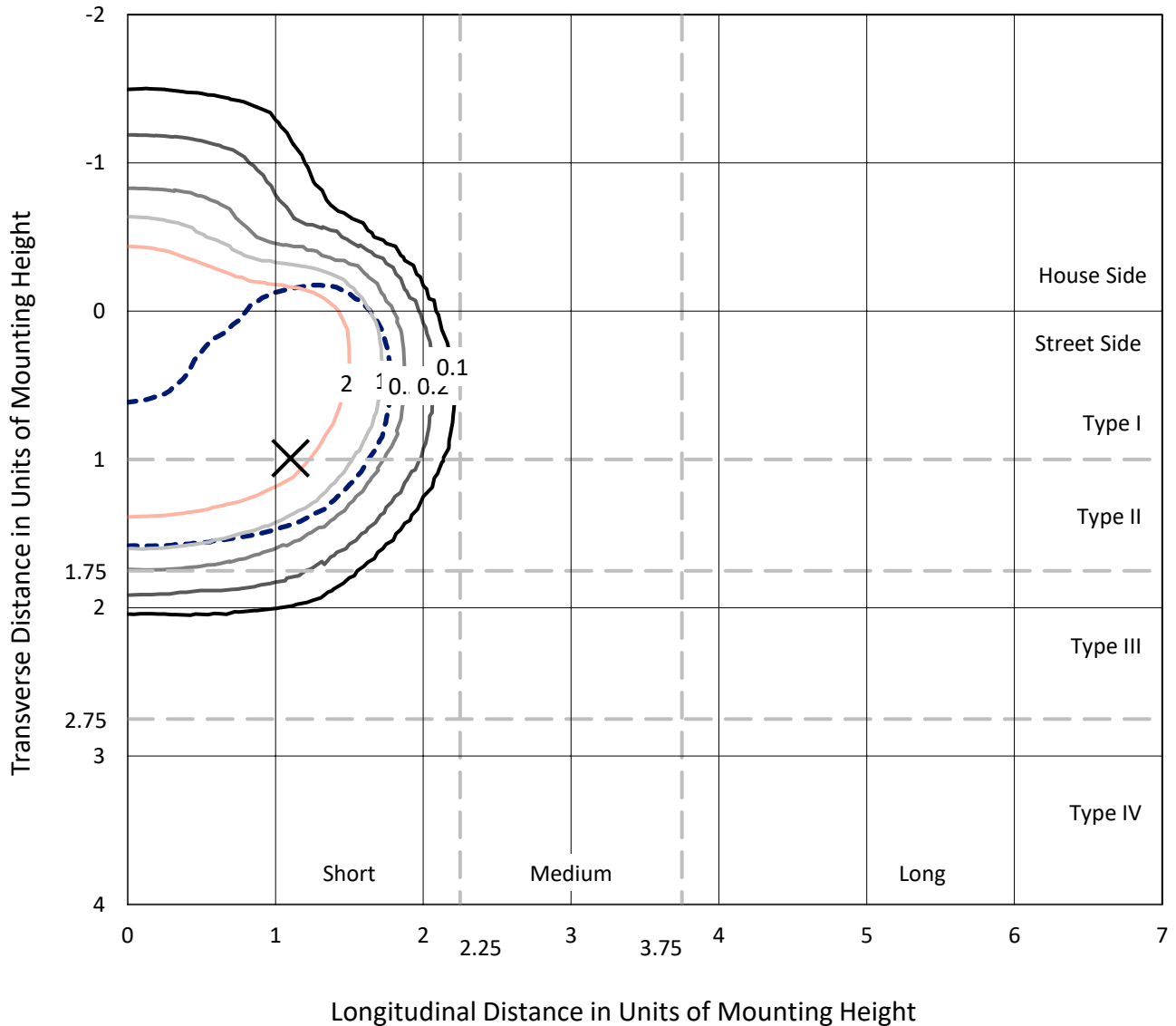
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

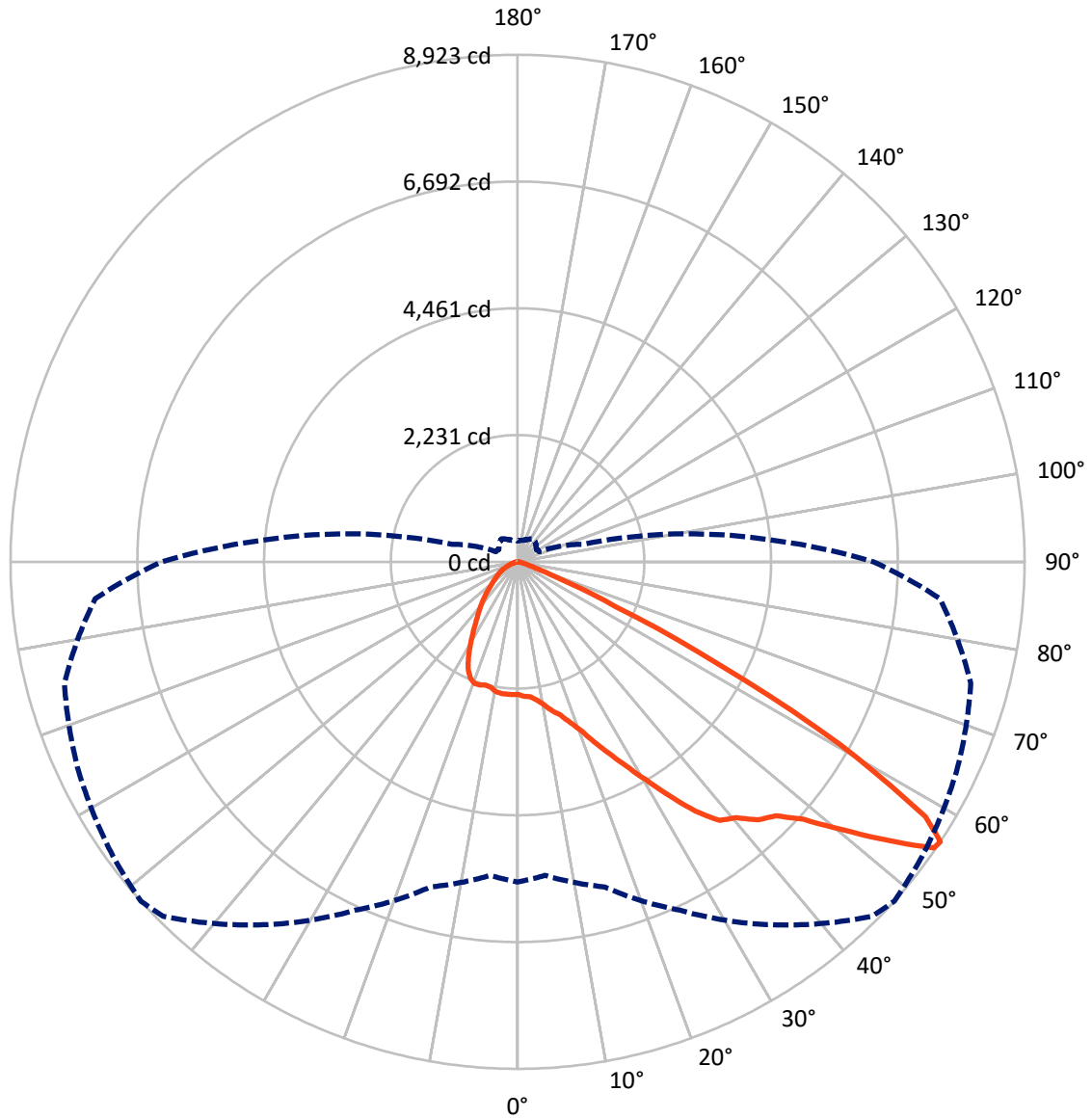
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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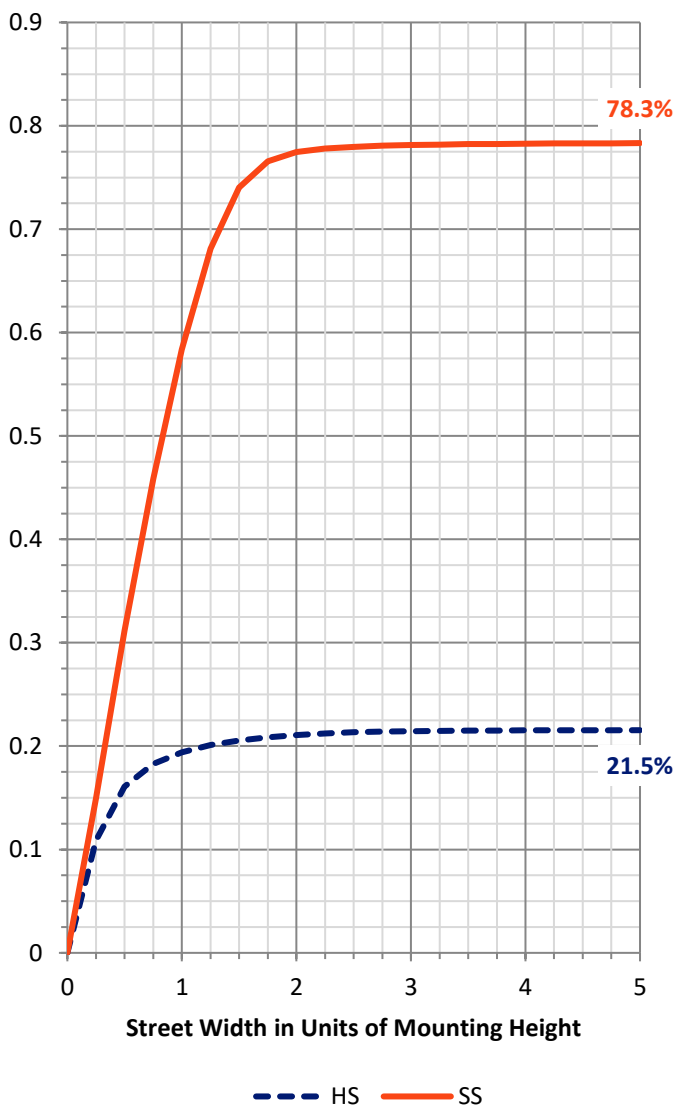
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2662.4	0.0	2662.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	9579.6	0.0	9579.6
	% Fixture	78.3	0.0	78.3
Total	Lumens	12242.0	0.0	12242.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.8	1.9
10°-20°	727.9	5.9
20°-30°	1320.3	10.8
30°-40°	2073.9	16.9
40°-50°	3025.4	24.7
50°-60°	3645.1	29.8
60°-70°	1067.2	8.7
70°-80°	135.4	1.1
80°-90°	19.0	0.2
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°	12242.0	100.0
0°-180°	12242.0	100.0

Coefficient of Utilization



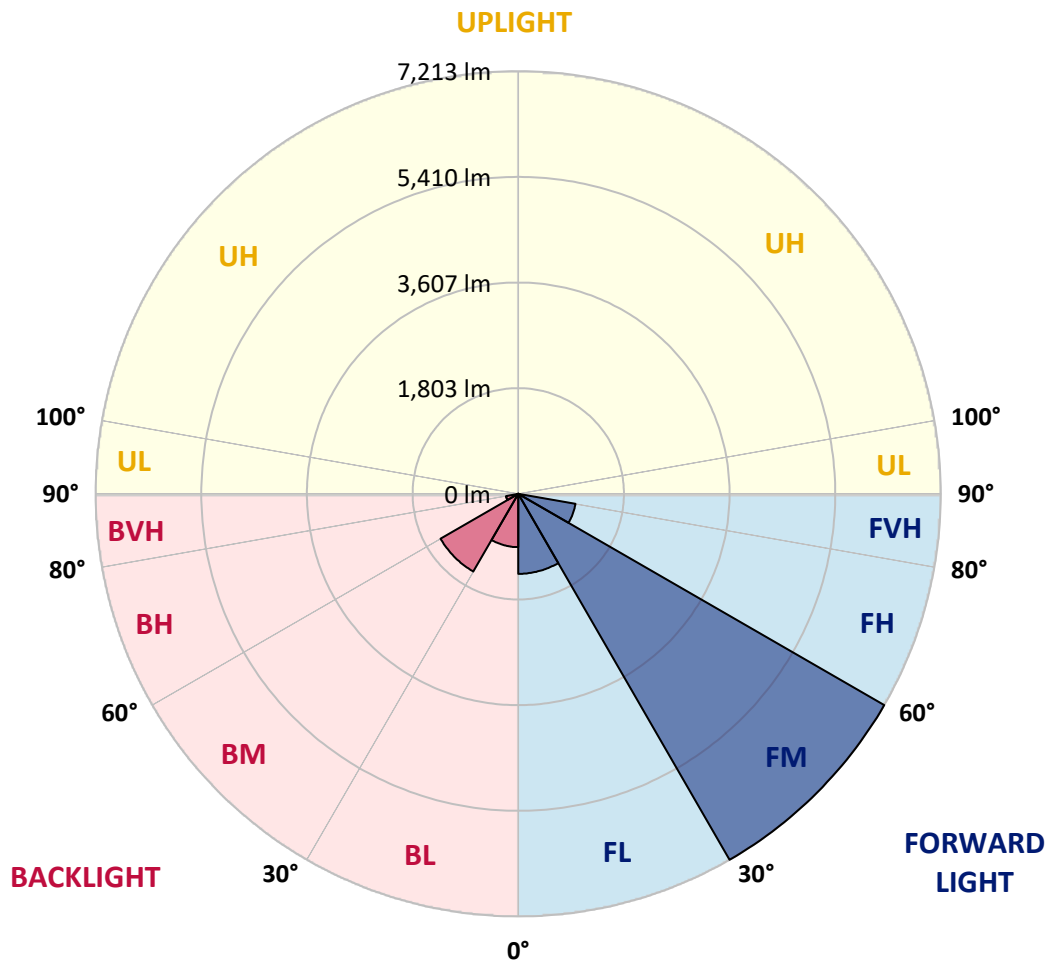
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1366.0	11.2			
FM (30°-60°)	7213.0	58.9			
FH (60°-80°)	991.1	8.1			G1/1800
FVH (80°-90°)	9.5	0.1			G0/10
BL (0°-30°)	910.0	7.4	B2/1000		
BM (30°-60°)	1531.4	12.5	B2/2500		
BH (60°-80°)	211.6	1.7	B1/500		G1/500
BVH (80°-90°)	9.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2338.2	2338.2	2338.2	2338.2	2338.2	2338.2	2338.2	2338.2	2338.2	2338.2	2338.2
2.5°	2380.6	2369.4	2369.4	2351.6	2371.7	2362.7	2369.4	2347.1	2369.4	2336.0	2362.7
5°	2391.7	2394.0	2385.0	2396.2	2396.2	2409.6	2387.3	2407.3	2418.5	2394.0	2382.8
7.5°	2449.7	2454.1	2451.9	2443.0	2460.8	2458.6	2456.4	2440.8	2445.2	2436.3	2422.9
10°	2563.4	2561.1	2572.3	2550.0	2536.6	2552.2	2556.7	2532.2	2514.3	2507.6	2465.3
12.5°	2728.3	2701.6	2686.0	2663.7	2670.3	2648.1	2688.2	2645.8	2636.9	2596.8	2554.4
15°	2862.0	2857.6	2859.8	2824.2	2784.0	2792.9	2792.9	2770.7	2757.3	2708.2	2648.1
17.5°	3136.2	3042.6	3062.7	3018.1	2984.6	2982.4	2962.3	2966.8	2931.1	2828.6	2737.2
20°	3350.2	3310.1	3278.9	3203.1	3151.8	3167.4	3158.5	3136.2	3125.1	2991.3	2862.0
22.5°	3541.9	3555.3	3504.0	3483.9	3412.6	3419.3	3437.1	3417.1	3332.4	3194.2	3002.5
25°	3811.6	3796.0	3726.9	3702.4	3635.5	3660.0	3729.1	3713.5	3660.0	3410.4	3111.7
27.5°	4130.3	4076.9	4090.2	3978.8	3914.1	3983.2	4065.7	4143.7	3992.1	3664.5	3241.0
30°	4355.5	4299.8	4295.3	4290.8	4275.2	4355.5	4451.3	4522.7	4400.1	3918.6	3455.0
32.5°	4466.9	4480.3	4518.2	4504.8	4640.8	4805.7	4906.0	5008.6	4854.8	4333.2	3738.0
35°	4763.4	4678.7	4763.4	4772.3	4912.7	5262.7	5389.7	5634.9	5597.0	4919.4	4083.5
37.5°	4937.2	4930.6	4941.7	5026.4	5162.4	5594.8	5775.4	5964.8	5893.5	5271.6	4513.7
40°	5224.8	5242.6	5240.4	5305.0	5454.4	5844.5	5918.0	6071.8	6078.5	5759.8	5146.8
42.5°	5686.2	5614.9	5568.1	5634.9	5844.5	6060.7	6207.8	6176.6	6397.2	6352.7	5960.4
45°	6100.8	6143.1	6074.0	6185.5	6261.3	6377.2	6372.7	6439.6	6720.5	6932.2	6573.3
47.5°	6488.6	6515.4	6548.8	6624.6	6789.6	6807.4	6769.5	6740.5	7128.4	7346.8	7048.1
50°	6720.5	6745.0	6901.0	7037.0	7344.6	7384.7	7407.0	7333.4	7596.5	7621.0	7496.1
52.5°	6658.0	6684.8	6903.2	7351.3	7841.6	8209.4	8142.6	8017.7	8002.1	8098.0	7910.7
55°	6105.2	6080.7	6381.6	7079.3	7997.7	8880.4	8889.3	8757.8	8505.9	8441.2	7848.3
56°	5634.9	5539.1	5922.5	6765.0	7797.1	8822.4	8922.7	8782.3	8546.0	8256.2	7462.7
57.5°	4616.3	4707.7	5088.8	5786.5	7103.8	8405.6	8463.5	8430.1	8251.8	7765.9	6566.7
60°	2545.5	2706.0	3042.6	3896.3	5057.6	6450.7	6497.6	6769.5	6802.9	5947.0	4518.2
62.5°	1081.1	1063.2	1413.2	2041.8	2879.9	3894.1	3981.0	4259.6	4310.9	3428.2	2266.9
65°	439.1	463.6	639.7	1027.6	1522.4	1774.3	1896.9	1988.3	2157.7	1415.4	835.9
67.5°	289.8	287.5	376.7	586.2	820.3	791.3	791.3	835.9	773.5	577.3	361.1
70°	207.3	214.0	269.7	405.7	510.4	378.9	363.3	347.7	394.5	381.2	292.0
72.5°	136.0	144.9	180.5	243.0	265.3	207.3	207.3	249.6	325.4	307.6	238.5
75°	89.2	91.4	111.5	140.4	131.5	107.0	118.1	167.2	236.3	227.4	169.4
77.5°	60.2	62.4	75.8	91.4	73.6	60.2	64.6	84.7	115.9	115.9	89.2
80°	22.3	24.5	31.2	29.0	33.4	42.4	46.8	58.0	69.1	69.1	60.2
82.5°	0.0	2.2	6.7	15.6	24.5	33.4	37.9	44.6	51.3	58.0	55.7
85°	0.0	2.2	6.7	11.1	17.8	20.1	22.3	15.6	13.4	13.4	11.1
87.5°	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	4.5	2.2	2.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2338.2	2338.2	2338.2	2338.2	2338.2	2338.2	2338.2	2338.2	2338.2	2338.2	2338.2
2.5°	2338.2	2336.0	2336.0	2329.3	2342.7	2336.0	2340.5	2338.2	2309.3	2331.5	2315.9
5°	2362.7	2378.3	2353.8	2349.4	2331.5	2338.2	2338.2	2315.9	2336.0	2333.8	2329.3
7.5°	2425.2	2398.4	2371.7	2344.9	2340.5	2333.8	2309.3	2300.3	2315.9	2298.1	2324.9
10°	2451.9	2456.4	2416.2	2380.6	2347.1	2300.3	2266.9	2246.8	2222.3	2249.1	2264.7
12.5°	2574.5	2529.9	2460.8	2405.1	2291.4	2244.6	2211.2	2202.3	2244.6	2253.5	2237.9
15°	2616.9	2610.2	2521.0	2396.2	2278.0	2222.3	2229.0	2211.2	2215.6	2193.3	2197.8
17.5°	2703.8	2628.0	2523.2	2367.2	2275.8	2262.4	2222.3	2151.0	2110.9	2093.0	2108.6
20°	2799.6	2726.1	2574.5	2378.3	2295.9	2260.2	2128.7	2041.8	1959.3	1914.7	1916.9
22.5°	2884.3	2792.9	2552.2	2382.8	2313.7	2166.6	2008.3	1836.7	1734.2	1665.1	1667.3
25°	2986.9	2857.6	2561.1	2391.7	2266.9	2017.3	1789.9	1622.7	1500.1	1453.3	1468.9
27.5°	3044.8	2897.7	2610.2	2411.8	2144.3	1805.5	1560.3	1404.3	1332.9	1310.7	1308.4
30°	3218.7	2986.9	2670.3	2371.7	1939.2	1578.1	1350.8	1254.9	1185.8	1165.8	1170.2
32.5°	3477.2	3149.6	2748.4	2266.9	1729.7	1375.3	1214.8	1143.5	1078.8	1040.9	1036.5
35°	3693.5	3428.2	2830.8	2104.2	1486.7	1219.3	1119.0	1029.8	931.7	889.4	878.2
37.5°	4105.8	3742.5	2813.0	1859.0	1254.9	1103.4	1016.4	907.2	822.5	764.5	757.9
40°	4654.2	4110.3	2726.1	1560.3	1083.3	1000.8	907.2	802.4	697.7	648.6	644.2
42.5°	5320.6	4560.5	2567.8	1257.2	911.7	898.3	813.6	693.2	599.6	563.9	566.2
45°	5862.3	4946.2	2407.3	1009.7	784.6	798.0	724.4	610.7	546.1	517.1	517.1
47.5°	6343.8	5207.0	2233.5	833.6	666.5	697.7	633.0	566.2	510.4	488.2	483.7
50°	6807.4	5472.2	2059.6	675.4	568.4	599.6	592.9	539.4	494.8	468.1	470.3
52.5°	7097.2	5514.6	1838.9	552.8	497.1	532.7	555.0	506.0	456.9	441.3	436.9
55°	6742.7	4968.5	1426.6	454.7	421.3	468.1	510.4	454.7	416.8	390.1	387.8
56°	6265.7	4442.4	1192.5	419.1	399.0	450.3	494.8	434.7	392.3	376.7	365.6
57.5°	5305.0	3635.5	880.5	372.2	370.0	419.1	470.3	414.6	365.6	352.2	352.2
60°	3307.8	2046.2	532.7	312.1	321.0	372.2	423.5	370.0	325.4	325.4	332.1
62.5°	1506.8	851.5	323.2	265.3	276.4	321.0	376.7	334.4	309.8	334.4	338.8
65°	512.7	367.8	234.0	211.8	218.4	265.3	323.2	338.8	336.6	352.2	361.1
67.5°	287.5	236.3	196.2	176.1	171.6	196.2	265.3	338.8	325.4	318.7	323.2
70°	243.0	200.6	173.9	156.0	149.3	158.3	205.1	256.3	229.6	222.9	218.4
72.5°	196.2	167.2	151.6	140.4	120.4	102.5	93.6	98.1	109.2	115.9	127.1
75°	138.2	127.1	127.1	113.7	86.9	64.6	51.3	42.4	29.0	20.1	22.3
77.5°	78.0	78.0	80.2	69.1	55.7	42.4	31.2	22.3	11.1	4.5	2.2
80°	53.5	58.0	62.4	55.7	46.8	37.9	26.7	15.6	6.7	0.0	0.0
82.5°	53.5	60.2	64.6	55.7	46.8	35.7	26.7	15.6	6.7	2.2	0.0
85°	11.1	13.4	15.6	17.8	26.7	26.7	20.1	13.4	6.7	2.2	0.0
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)