

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: P940947

Luminaire Tested: **GALN-SB4B-730-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-730-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22583 lumens
Efficiency: N/A
Efficacy: 153.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 147
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



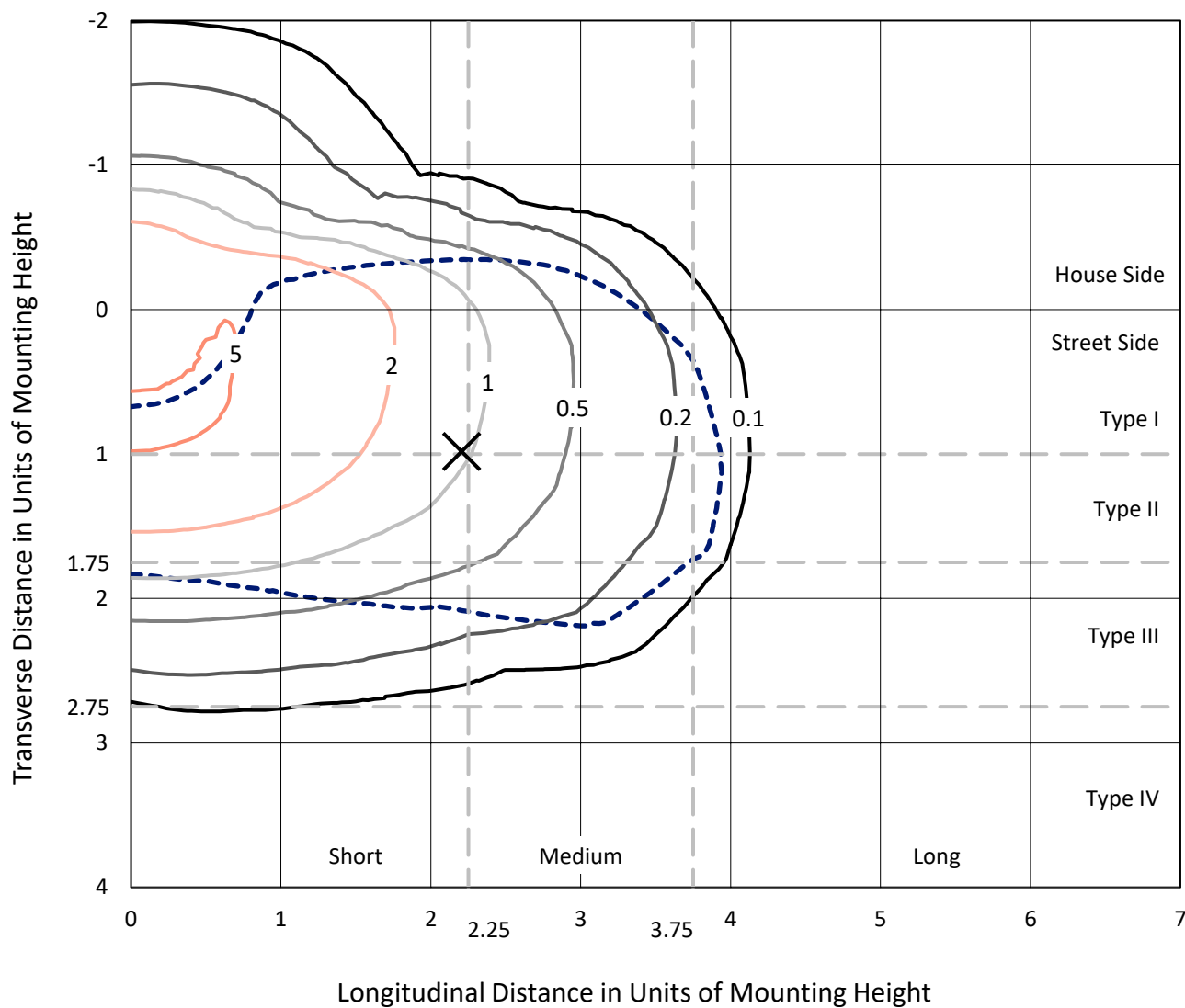
REPORT NUMBER: P940947

CATALOG NUMBER: GALN-SB4B-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

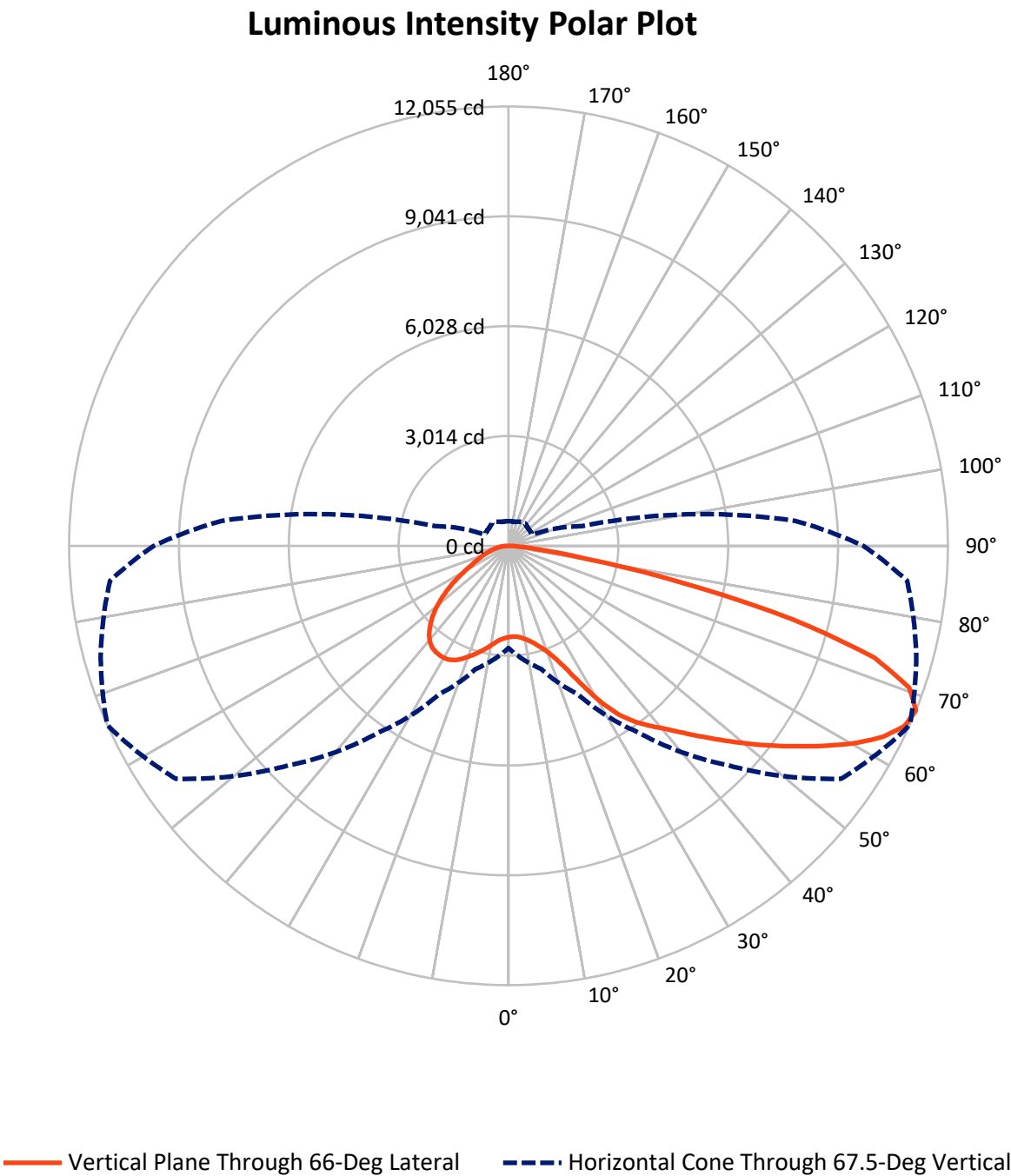
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
Type III - Short - N/A

REPORT NUMBER: P940947
CATALOG NUMBER: GALN-SB4B-730-U-T3



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5615.2	0.0	5615.2
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	16967.8	0.0	16967.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	22583.0	0.0	22583.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.3	1.1
10°-20°	820.5	3.6
20°-30°	1581.4	7.0
30°-40°	2772.8	12.3
40°-50°	4122.2	18.3
50°-60°	5225.3	23.1
60°-70°	5112.9	22.6
70°-80°	2438.9	10.8
80°-90°	260.7	1.2
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°	22583.0	100.0
0°-180°	22583.0	100.0

Coefficient of Utilization



REPORT NUMBER: P940947

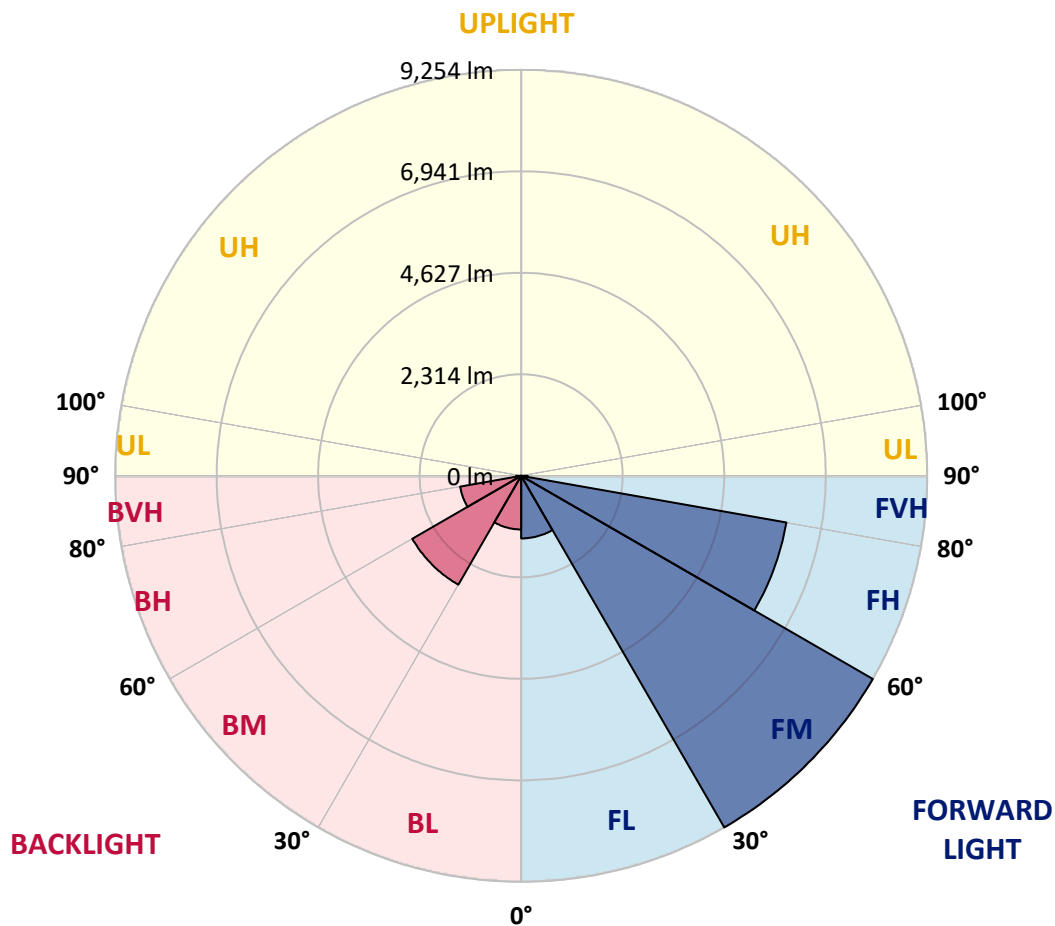
CATALOG NUMBER: GALN-SB4B-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1427.0	6.3			
FM	(30°-60°)	9254.3	41.0			
FH	(60°-80°)	6138.7	27.2			G3/7500
FVH	(80°-90°)	147.8	0.7			G2/225
BL	(0°-30°)	1223.2	5.4	B3/2500		
BM	(30°-60°)	2866.1	12.7	B3/5000		
BH	(60°-80°)	1413.1	6.3	B3/2500		G3/2500
BVH	(80°-90°)	112.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



REPORT NUMBER: P940947

CATALOG NUMBER: GALN-SB4B-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2504.8	2504.8	2504.8	2504.8	2504.8	2504.8	2504.8	2504.8	2504.8	2504.8	2504.8
2.5°	2478.6	2492.9	2489.3	2483.4	2482.2	2484.6	2488.1	2491.7	2490.5	2496.4	2505.9
5°	2471.5	2485.8	2484.6	2484.6	2489.3	2498.8	2504.8	2510.7	2504.8	2511.9	2524.9
7.5°	2476.3	2487.0	2491.7	2496.4	2508.3	2526.1	2540.3	2553.4	2546.3	2554.6	2571.2
10°	2536.8	2545.1	2549.8	2549.8	2558.1	2578.3	2592.6	2616.3	2610.4	2623.4	2644.8
12.5°	2647.1	2655.4	2655.4	2650.7	2656.6	2669.7	2674.4	2700.5	2689.9	2711.2	2732.6
15°	2782.4	2799.0	2786.0	2777.7	2780.0	2793.1	2791.9	2812.1	2801.4	2819.2	2838.2
17.5°	2931.9	2953.3	2931.9	2930.7	2926.0	2940.2	2941.4	2959.2	2940.2	2953.3	2966.3
20°	3108.7	3138.4	3120.6	3126.5	3115.8	3121.7	3127.7	3153.8	3124.1	3133.6	3130.1
22.5°	3357.9	3393.5	3374.5	3397.0	3389.9	3385.2	3384.0	3430.2	3384.0	3387.5	3353.1
25°	3720.9	3763.7	3730.4	3761.3	3761.3	3776.7	3794.5	3853.8	3776.7	3754.2	3665.2
27.5°	4257.2	4300.0	4234.7	4253.7	4247.8	4285.7	4266.7	4413.9	4330.8	4294.0	4114.9
30°	4902.7	4978.7	4855.3	4850.5	4844.6	4905.1	4932.4	5029.7	4945.4	4908.7	4692.7
32.5°	5600.4	5679.9	5532.8	5490.0	5467.5	5504.3	5481.7	5560.1	5501.9	5445.0	5178.0
35°	6338.4	6416.7	6276.7	6193.7	6103.5	6026.4	5945.7	5965.8	5911.3	5824.6	5548.2
37.5°	7036.1	7179.7	7031.3	6942.4	6776.2	6625.6	6400.1	6306.4	6255.4	6175.9	5897.0
40°	7746.8	7828.7	7716.0	7640.0	7459.7	7223.6	6862.9	6664.7	6595.9	6518.8	6282.6
42.5°	8270.1	8348.4	8287.9	8235.7	8094.5	7820.4	7354.1	7106.1	7006.4	6919.8	6719.3
45°	8685.4	8743.5	8705.5	8724.5	8664.0	8398.2	7863.1	7579.5	7476.3	7370.7	7212.9
47.5°	8852.7	8914.4	8974.9	9087.6	9190.8	8995.0	8410.1	8092.1	7982.9	7875.0	7719.5
50°	8833.7	8896.6	9072.2	9311.8	9632.2	9566.9	8986.7	8637.9	8537.0	8413.6	8270.1
52.5°	8681.8	8753.0	8978.4	9377.1	9887.3	9995.3	9574.1	9201.5	9106.6	8959.4	8815.9
55°	8283.1	8325.8	8664.0	9228.8	9947.8	10294.3	10149.5	9801.9	9707.0	9501.7	9345.1
57.5°	7543.9	7605.6	8098.0	8828.9	9795.9	10497.2	10655.0	10433.1	10341.7	10046.3	9882.6
60°	6579.3	6677.8	7241.4	8157.4	9409.1	10496.0	11114.2	11053.7	10977.7	10582.6	10411.8
62.5°	5487.7	5601.6	6143.8	7208.1	8732.8	10198.2	11401.3	11573.4	11534.2	11077.4	10859.1
65°	4214.5	4292.8	4832.7	5980.1	7680.4	9558.6	11434.5	11928.1	11935.2	11453.5	11092.8
67.5°	2806.1	3031.6	3500.2	4487.4	6270.8	8513.3	11142.7	11986.3	12055.1	11582.9	10975.4
70°	1369.2	1665.9	2125.1	2916.5	4487.4	6910.3	10379.7	11509.3	11662.3	11205.5	10275.3
72.5°	568.3	664.5	914.8	1439.3	2575.9	4663.0	8846.7	10216.0	10499.6	9928.8	8639.1
75°	383.2	415.3	523.3	738.0	1173.5	2299.5	6379.9	7617.5	8074.3	7498.8	6129.6
77.5°	295.4	315.6	380.9	516.1	697.7	869.7	3414.8	4590.7	4826.8	4468.5	3189.4
80°	232.6	248.0	284.8	376.1	494.8	465.1	1164.0	2080.0	2216.4	1859.3	1025.2
82.5°	201.7	207.6	204.1	255.1	328.7	271.7	382.1	767.7	847.2	614.6	334.6
85°	145.9	162.6	169.7	157.8	174.4	137.6	156.6	271.7	299.0	267.0	188.7
87.5°	59.3	87.8	108.0	102.0	64.1	39.2	48.6	79.5	91.4	99.7	61.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940947

CATALOG NUMBER: GALN-SB4B-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2504.8	2504.8	2504.8	2504.8	2504.8	2504.8	2504.8	2504.8	2504.8	2504.8	2504.8
2.5°	2507.1	2515.4	2521.4	2528.5	2533.2	2540.3	2554.6	2562.9	2564.1	2570.0	2568.8
5°	2529.7	2541.5	2554.6	2573.6	2594.9	2612.7	2640.0	2659.0	2666.1	2672.1	2670.9
7.5°	2578.3	2594.9	2618.7	2651.9	2682.7	2706.5	2739.7	2762.2	2784.8	2793.1	2794.3
10°	2650.7	2674.4	2708.8	2753.9	2787.1	2818.0	2852.4	2871.4	2893.9	2903.4	2908.2
12.5°	2740.9	2765.8	2810.9	2873.8	2904.6	2926.0	2937.8	2933.1	2937.8	2946.1	2948.5
15°	2844.1	2871.4	2922.4	2990.0	3011.4	2992.4	2966.3	2942.6	2939.0	2941.4	2949.7
17.5°	2966.3	2986.5	3045.8	3102.8	3087.3	3009.0	2952.1	2914.1	2895.1	2889.2	2897.5
20°	3137.2	3137.2	3185.8	3221.4	3118.2	2985.3	2896.3	2834.6	2795.5	2778.8	2775.3
22.5°	3344.8	3325.8	3356.7	3331.8	3112.3	2918.9	2795.5	2688.7	2629.3	2605.6	2602.0
25°	3608.2	3585.7	3577.4	3423.1	3069.5	2813.2	2612.7	2483.4	2431.2	2418.1	2420.5
27.5°	4005.7	3948.8	3840.8	3473.0	2991.2	2647.1	2399.2	2279.3	2249.7	2250.8	2254.4
30°	4534.9	4421.0	4156.4	3481.3	2863.1	2412.2	2180.8	2095.4	2081.2	2087.1	2107.3
32.5°	5024.9	4917.0	4479.1	3443.3	2666.1	2182.0	1985.1	1928.1	1906.7	1913.9	1923.4
35°	5409.4	5379.7	4778.1	3389.9	2424.1	1966.1	1809.4	1760.8	1719.3	1709.8	1716.9
37.5°	5772.4	5760.6	5002.4	3315.1	2184.4	1813.0	1668.3	1604.2	1543.7	1510.4	1511.6
40°	6171.1	6159.2	5149.5	3200.1	1972.0	1680.1	1541.3	1457.1	1382.3	1321.8	1327.7
42.5°	6619.6	6549.6	5219.5	3035.1	1791.7	1567.4	1438.1	1324.2	1225.7	1169.9	1173.5
45°	7109.7	6951.8	5218.3	2825.1	1639.8	1464.2	1327.7	1166.4	1075.0	1022.8	1020.4
47.5°	7629.4	7336.3	5154.3	2592.6	1492.6	1350.3	1156.9	1033.5	973.0	940.9	933.8
50°	8165.7	7695.8	5045.1	2325.6	1342.0	1220.9	1050.1	965.8	919.6	889.9	879.2
52.5°	8669.9	8022.1	4913.4	2023.0	1188.9	1095.2	1002.6	937.4	888.7	855.5	841.2
55°	9138.6	8303.3	4727.1	1713.3	1064.3	1010.9	980.1	925.5	869.7	830.6	815.1
57.5°	9555.1	8486.0	4405.6	1422.6	975.3	952.8	956.3	905.3	841.2	808.0	786.7
60°	9901.5	8620.1	3929.8	1153.3	902.9	895.8	919.6	867.3	792.6	754.6	738.0
62.5°	10109.2	8617.7	3346.0	944.5	841.2	843.6	870.9	819.9	744.0	708.4	697.7
65°	10091.4	8406.5	2705.3	808.0	781.9	784.3	819.9	767.7	703.6	682.3	681.1
67.5°	9734.2	7891.6	2075.2	719.0	716.7	727.3	768.9	732.1	678.7	676.3	679.9
70°	8767.2	6822.5	1495.0	647.8	649.0	664.5	719.0	709.5	665.6	670.4	669.2
72.5°	7030.2	5201.7	1003.8	573.1	574.3	599.2	671.6	691.7	652.6	715.5	725.0
75°	4682.0	3244.0	645.5	493.6	494.8	526.8	630.0	657.3	617.0	713.1	719.0
77.5°	2249.7	1458.2	467.5	415.3	415.3	444.9	544.6	588.5	525.6	554.1	507.8
80°	777.2	548.2	367.8	334.6	327.5	347.7	459.2	510.2	453.3	417.7	391.6
82.5°	306.1	284.8	295.4	259.8	236.1	249.2	357.1	421.2	333.4	301.4	300.2
85°	175.6	185.1	208.8	172.0	136.5	153.1	262.2	302.6	251.5	221.9	226.6
87.5°	47.5	65.3	96.1	89.0	61.7	65.3	124.6	167.3	144.8	111.5	115.1
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)