

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: P941604

Luminaire Tested: **GALN-SB5B-722-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941604
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-722-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17159 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 182.7
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

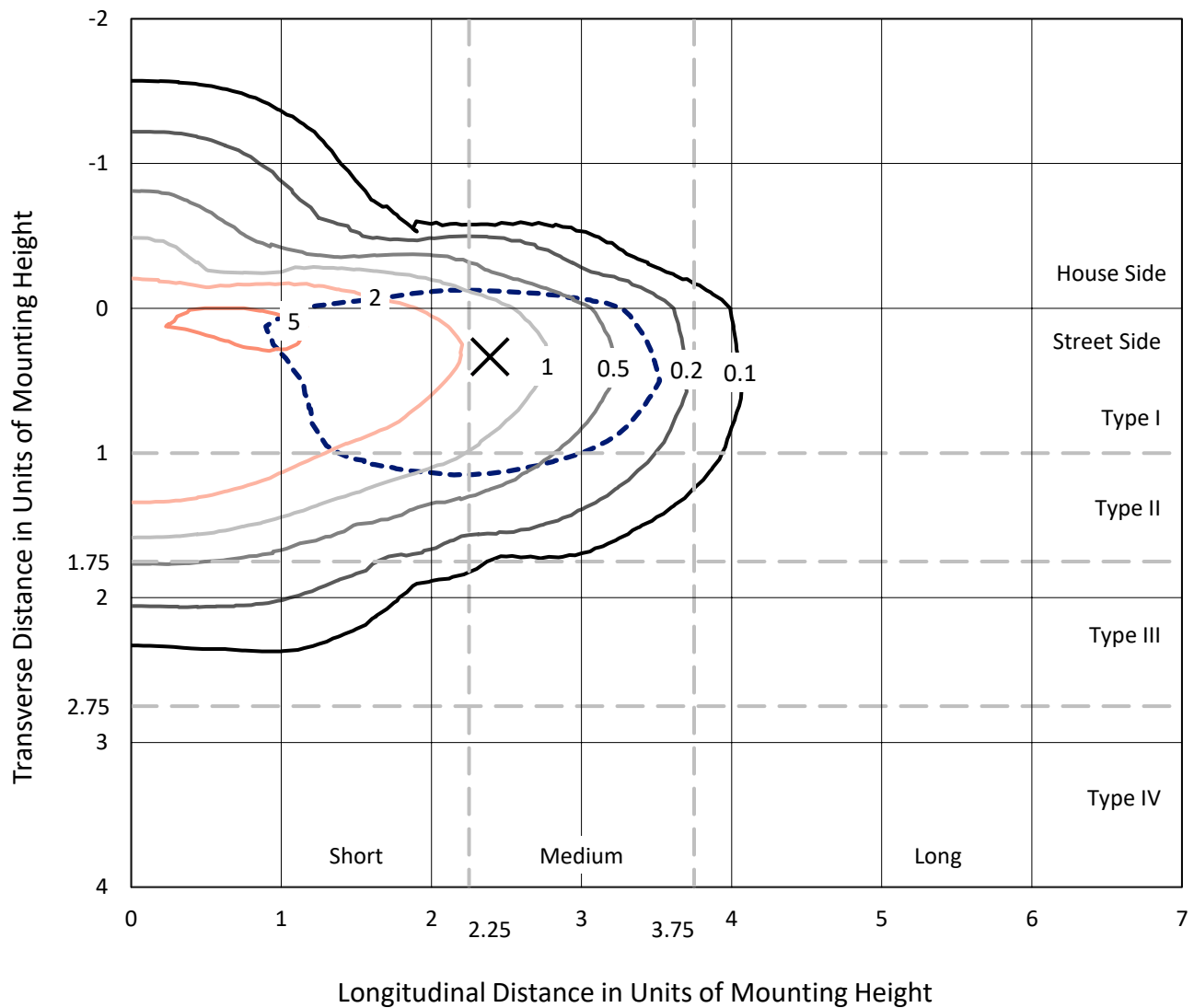


REPORT NUMBER: P941604

CATALOG NUMBER: GALN-SB5B-722-U-T2-HSS

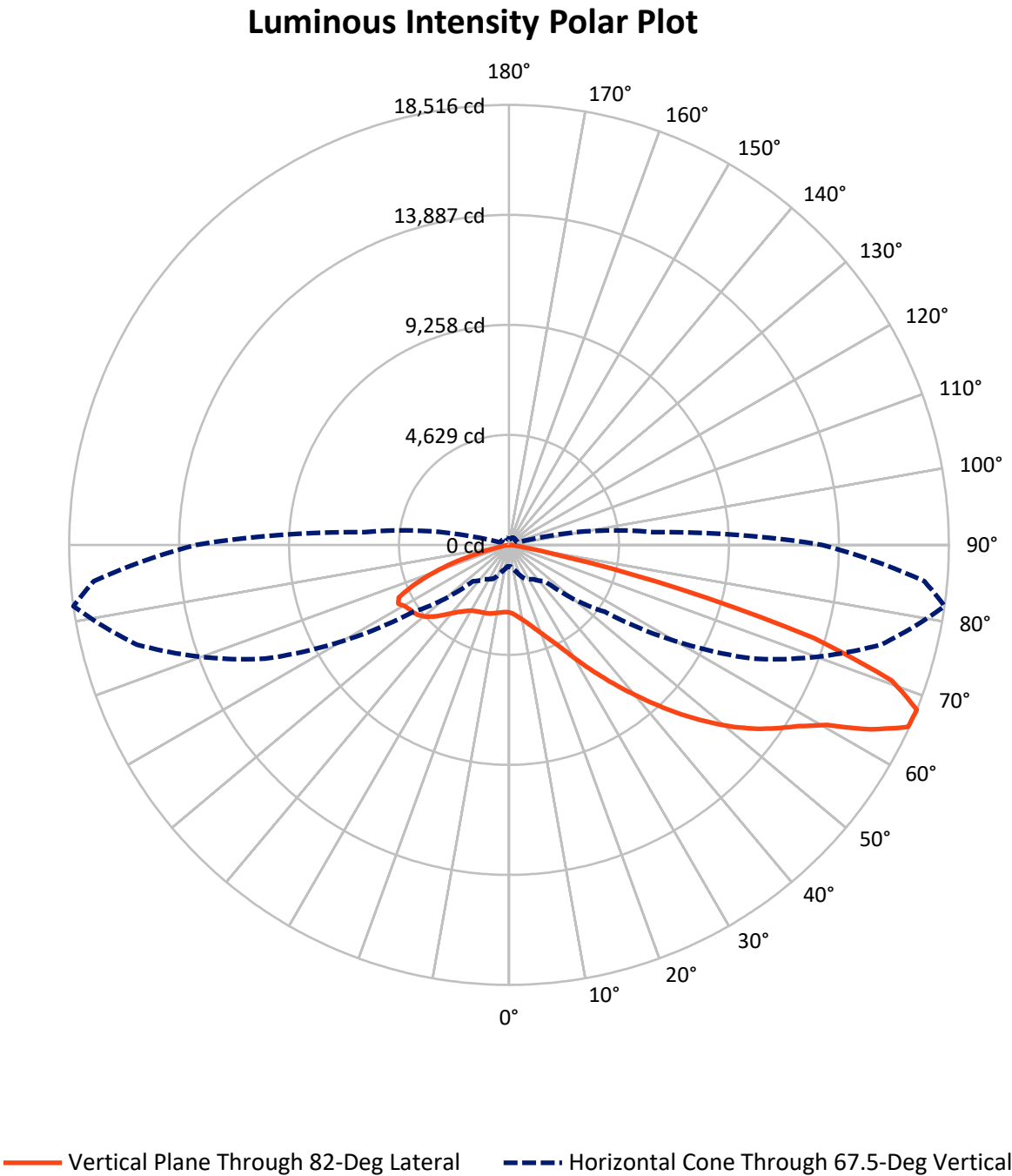
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
Type II - Medium - N/A

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CATALOG NUMBER: GALN-SB5B-722-U-T2-HSS



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3108.2	0.0	3108.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	14050.8	0.0	14050.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	17159.0	0.0	17159.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.3	1.5
10°-20°	658.1	3.8
20°-30°	1054.1	6.1
30°-40°	1864.0	10.9
40°-50°	3265.9	19.0
50°-60°	4355.7	25.4
60°-70°	4055.0	23.6
70°-80°	1556.3	9.1
80°-90°	96.7	0.6
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°	17159.0	100.0
0°-180°	17159.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941604

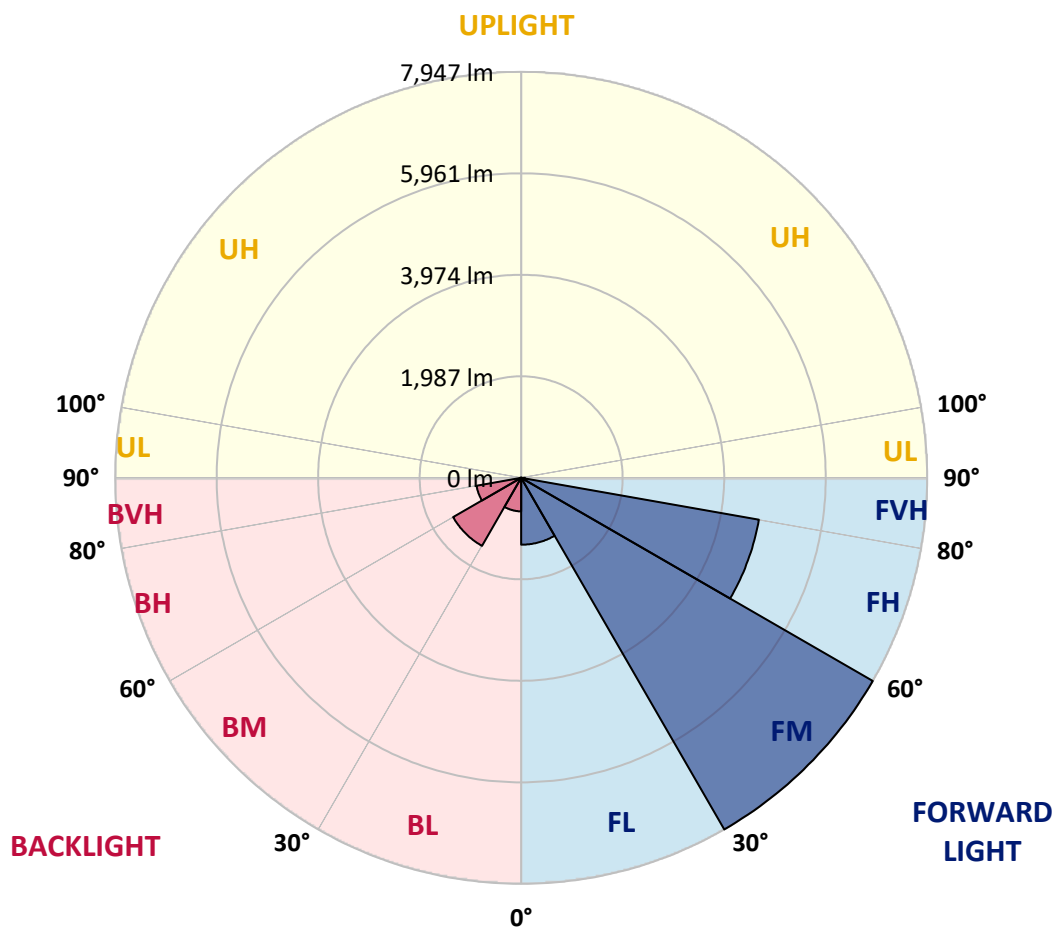
CATALOG NUMBER: GALN-SB5B-722-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1309.0	7.6			
FM	(30°-60°)	7947.3	46.3			
FH	(60°-80°)	4724.1	27.5			G2/5000
FVH	(80°-90°)	70.3	0.4			G1/100
BL	(0°-30°)	656.4	3.8	B2/1000		
BM	(30°-60°)	1538.2	9.0	B2/2500		
BH	(60°-80°)	887.1	5.2	B2/1000		G2/1000
BVH	(80°-90°)	26.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



REPORT NUMBER: P941604

CATALOG NUMBER: GALN-SB5B-722-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2842.7	2842.7	2842.7	2842.7	2842.7	2842.7	2842.7	2842.7	2842.7	2842.7	2842.7
2.5°	3004.5	3021.8	3011.9	3007.0	2998.3	2986.0	2976.1	2945.2	2913.1	2892.1	2884.7
5°	3065.0	3082.3	3081.1	3086.0	3092.2	3095.9	3093.5	3058.9	3013.2	2977.3	2956.3
7.5°	3013.2	3032.9	3049.0	3073.7	3116.9	3162.6	3184.9	3177.5	3130.5	3081.1	3055.2
10°	2866.1	2887.1	2925.4	2983.5	3074.9	3173.8	3256.5	3294.8	3265.2	3210.8	3175.0
12.5°	2596.8	2617.8	2693.2	2819.2	2972.4	3144.1	3302.2	3404.8	3412.2	3357.8	3315.8
15°	2294.1	2315.1	2395.4	2553.6	2787.1	3062.6	3326.9	3520.9	3586.4	3539.4	3488.8
17.5°	2106.4	2124.9	2185.4	2312.7	2556.1	2899.5	3318.3	3644.4	3793.9	3756.9	3696.3
20°	2049.5	2065.6	2094.0	2183.0	2385.6	2730.2	3261.5	3760.6	4017.5	3996.5	3928.6
22.5°	2110.1	2124.9	2133.5	2173.1	2300.3	2619.1	3189.8	3879.2	4277.0	4279.4	4196.7
25°	2249.7	2264.5	2254.6	2279.3	2334.9	2584.5	3162.6	4018.8	4603.1	4630.3	4536.4
27.5°	2479.5	2480.7	2457.2	2456.0	2464.6	2636.4	3191.0	4168.3	5014.5	5065.2	4949.0
30°	2940.3	2921.7	2831.5	2734.0	2689.5	2792.0	3270.1	4344.9	5500.0	5590.2	5444.4
32.5°	3650.6	3623.4	3457.9	3224.4	2989.7	3042.8	3412.2	4546.3	6028.8	6191.8	6013.9
35°	4421.5	4414.1	4241.1	3894.0	3483.8	3399.8	3643.2	4810.7	6605.7	6865.1	6653.9
37.5°	5138.0	5134.3	5035.5	4626.6	4127.5	3897.7	4013.8	5156.6	7223.4	7599.0	7349.4
40°	5792.8	5803.9	5705.1	5339.4	4836.6	4536.4	4517.9	5584.0	7910.3	8398.3	8101.8
42.5°	6358.6	6371.0	6270.9	6000.4	5537.1	5243.1	5136.8	6107.8	8581.1	9256.9	8906.0
45°	6742.8	6819.4	6804.6	6588.4	6256.1	5950.9	5880.5	6765.1	9345.8	10167.4	9756.0
47.5°	6851.6	6922.0	7033.2	7062.8	6860.2	6560.0	6644.0	7557.0	10119.2	11079.1	10610.9
50°	6583.5	6648.9	6880.0	7187.6	7328.4	7235.8	7386.5	8405.7	10911.1	11988.4	11449.7
52.5°	6054.7	6121.4	6413.0	6899.7	7474.2	7765.8	8131.4	9242.1	11678.3	12849.4	12244.1
55°	5290.0	5360.4	5734.7	6285.7	7196.2	7984.4	8752.8	10077.2	12381.2	13624.0	12960.6
57.5°	4249.8	4301.7	4690.8	5461.7	6497.0	7767.0	9211.2	10988.9	13043.4	14385.0	13671.0
60°	2769.8	2815.5	3267.6	4127.5	5338.2	7040.6	9302.6	12005.7	13923.0	15374.6	14628.4
62.5°	1842.0	1872.9	2141.0	2772.2	3759.3	5645.8	8767.7	12817.3	15212.8	17096.8	16270.3
65°	1263.8	1294.7	1562.8	2002.6	2428.8	3734.6	7229.6	12709.8	16381.5	18464.4	17487.1
67.5°	901.8	927.8	1155.1	1570.2	1758.0	2169.4	4900.8	11336.1	16213.4	18516.2	17552.6
70°	646.1	660.9	848.7	1223.1	1397.2	1303.4	2725.3	8670.1	14196.0	17098.0	16215.9
72.5°	452.2	457.1	589.3	931.5	1125.5	951.3	1297.2	5780.5	10736.9	13420.2	12571.5
75°	306.4	312.6	396.6	683.2	903.1	726.4	686.9	3099.6	6303.0	7428.5	6658.8
77.5°	187.8	190.3	255.7	467.0	675.8	553.5	442.3	1313.2	2438.7	2394.2	2040.9
80°	106.2	106.2	163.1	290.3	460.8	357.0	310.1	558.4	772.1	678.2	597.9
82.5°	59.3	60.5	118.6	180.4	305.1	211.3	170.5	258.2	333.6	295.3	257.0
85°	24.7	27.2	72.9	85.2	145.8	105.0	69.2	108.7	123.5	110.0	80.3
87.5°	2.5	3.7	22.2	16.1	17.3	21.0	9.9	21.0	17.3	17.3	12.4
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: P941604

CATALOG NUMBER: GALN-SB5B-722-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2842.7	2842.7	2842.7	2842.7	2842.7	2842.7	2842.7	2842.7	2842.7	2842.7	2842.7
2.5°	2861.2	2842.7	2795.7	2741.4	2669.7	2635.1	2588.2	2556.1	2528.9	2531.3	2506.6
5°	2916.8	2869.8	2764.8	2633.9	2470.8	2354.7	2231.1	2145.9	2076.7	2061.9	2028.5
7.5°	2993.4	2919.3	2735.2	2499.2	2223.7	2014.9	1828.4	1708.6	1623.3	1596.1	1569.0
10°	3092.2	2984.7	2696.9	2330.0	1933.4	1667.8	1467.7	1373.8	1315.7	1295.9	1281.1
12.5°	3207.1	3060.1	2646.2	2123.7	1634.4	1378.7	1251.5	1204.5	1186.0	1179.8	1176.1
15°	3351.7	3154.0	2569.6	1879.1	1381.2	1202.0	1147.7	1141.5	1144.0	1141.5	1140.3
17.5°	3523.4	3256.5	2444.9	1627.0	1210.7	1111.9	1092.1	1097.0	1103.2	1102.0	1099.5
20°	3711.2	3357.8	2285.5	1403.4	1094.6	1047.6	1036.5	1041.4	1046.4	1043.9	1042.7
22.5°	3924.9	3466.5	2108.8	1229.2	1016.7	988.3	976.0	977.2	977.2	972.3	969.8
25°	4180.6	3586.4	1923.5	1105.7	957.4	935.2	920.4	915.4	908.0	893.2	890.7
27.5°	4485.8	3713.6	1745.6	1019.2	910.5	889.5	872.2	859.8	841.3	816.6	814.1
30°	4829.2	3868.1	1594.9	964.9	873.4	852.4	832.7	814.1	787.0	756.1	753.6
32.5°	5233.2	4033.6	1485.0	929.0	840.1	817.8	794.4	772.1	742.5	711.6	712.8
35°	5715.0	4233.7	1420.7	904.3	814.1	784.5	758.5	733.8	711.6	684.4	681.9
37.5°	6237.6	4446.2	1400.9	892.0	796.8	751.1	721.5	704.2	701.7	685.6	684.4
40°	6809.5	4698.2	1415.8	884.5	778.3	719.0	686.9	683.2	689.4	660.9	662.2
42.5°	7414.9	4997.2	1440.5	875.9	752.4	686.9	656.0	656.0	651.1	611.5	611.5
45°	8069.7	5341.9	1465.2	854.9	721.5	654.8	631.3	622.6	601.6	563.3	562.1
47.5°	8729.4	5692.7	1483.7	816.6	684.4	627.6	606.6	586.8	555.9	521.3	520.1
50°	9355.7	6007.8	1464.0	759.8	642.4	601.6	579.4	552.2	518.9	495.4	491.7
52.5°	9915.4	6280.8	1379.9	693.1	597.9	574.5	554.7	526.3	499.1	474.4	471.9
55°	10402.1	6501.9	1231.7	630.1	558.4	551.0	531.2	495.4	458.3	437.3	434.9
57.5°	10869.1	6669.9	1046.4	578.2	522.6	525.0	495.4	463.3	428.7	406.4	404.0
60°	11490.5	6894.8	858.6	530.0	484.3	491.7	459.6	436.1	392.9	364.4	360.7
62.5°	12483.8	7244.4	681.9	470.7	439.8	442.3	428.7	400.3	348.4	315.0	312.6
65°	13271.9	7115.9	537.4	406.4	389.2	392.9	392.9	362.0	306.4	268.1	264.4
67.5°	13183.0	6093.0	428.7	343.4	341.0	343.4	352.1	326.1	271.8	240.9	236.0
70°	12144.0	4846.5	343.4	285.4	296.5	290.3	315.0	297.7	244.6	213.7	210.0
72.5°	9909.2	3491.3	261.9	236.0	227.3	237.2	284.1	268.1	203.8	169.3	165.5
75°	5790.3	1863.0	195.2	186.5	164.3	197.7	252.0	228.5	155.7	124.8	121.1
77.5°	1885.2	649.8	143.3	137.1	122.3	159.4	215.0	192.7	127.2	98.8	95.1
80°	505.3	196.4	97.6	90.2	79.1	118.6	170.5	153.2	91.4	64.2	63.0
82.5°	202.6	82.8	56.8	50.7	43.2	81.5	134.7	123.5	67.9	40.8	40.8
85°	65.5	27.2	21.0	16.1	19.8	50.7	80.3	84.0	48.2	21.0	16.1
87.5°	8.6	3.7	3.7	4.9	3.7	8.6	24.7	23.5	13.6	2.5	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)