

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: P941609

Luminaire Tested: **GALN-SB5B-722-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
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-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23225 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

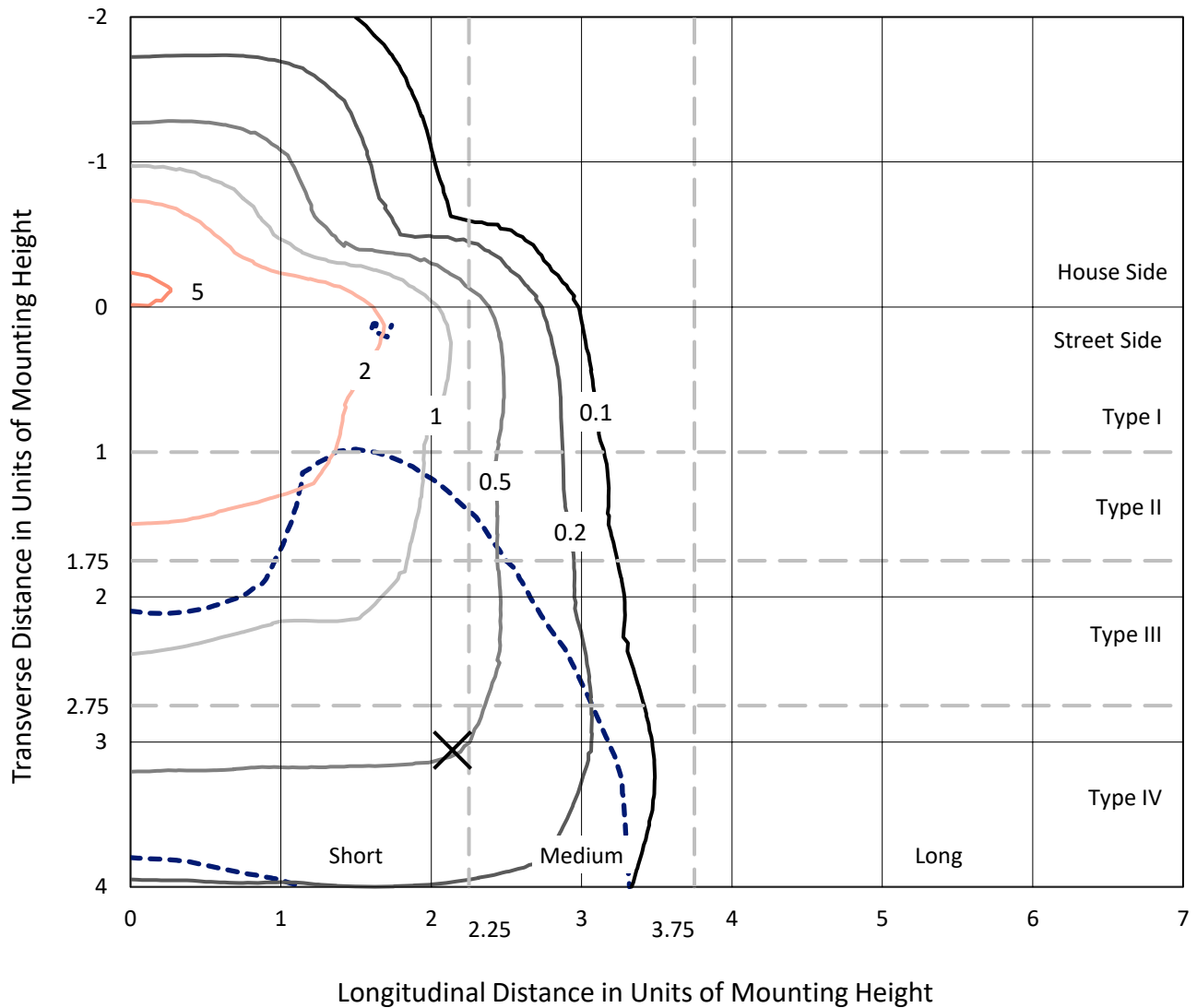
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

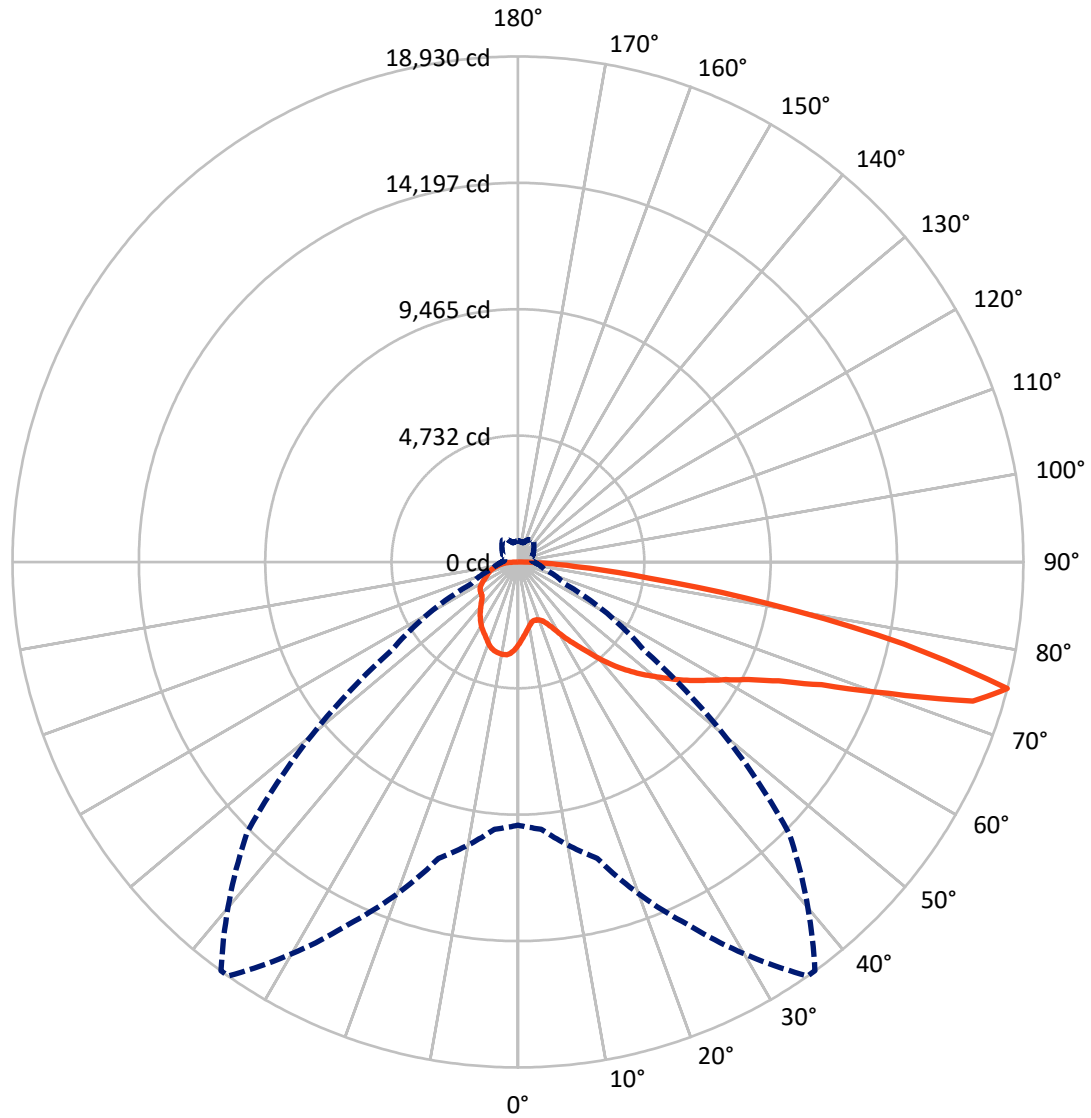
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5527.0	0.0	5527.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	17698.0	0.0	17698.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	23225.0	0.0	23225.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.0	1.3
10°-20°	845.2	3.6
20°-30°	1419.3	6.1
30°-40°	2205.8	9.5
40°-50°	3274.0	14.1
50°-60°	4520.0	19.5
60°-70°	5483.8	23.6
70°-80°	4531.9	19.5
80°-90°	651.8	2.8
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°	23225.0	100.0
0°-180°	23225.0	100.0

Coefficient of Utilization



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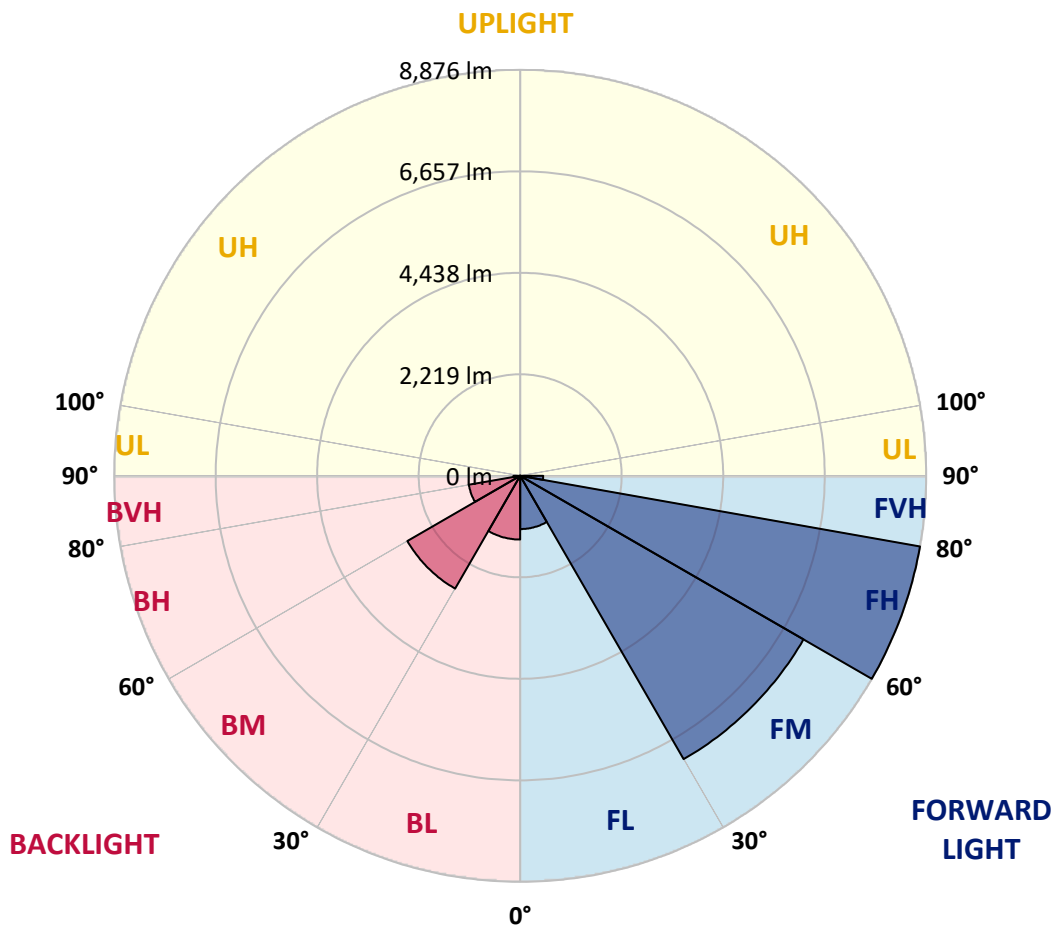
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1164.7	5.0			
FM (30°-60°)	7152.0	30.8			
FH (60°-80°)	8876.2	38.2			G4/12000
FVH (80°-90°)	505.1	2.2			G4/750
BL (0°-30°)	1392.9	6.0	B3/2500		
BM (30°-60°)	2847.8	12.3	B3/5000		
BH (60°-80°)	1139.5	4.9	B3/2500		G3/2500
BVH (80°-90°)	146.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3094.9	3094.9	3094.9	3094.9	3094.9	3094.9	3094.9	3094.9	3094.9	3094.9	3094.9
2.5°	2853.8	2871.4	2878.9	2875.2	2894.0	2891.5	2917.9	2950.5	2995.7	3039.6	3103.7
5°	2634.1	2652.9	2669.3	2684.3	2720.7	2732.0	2773.5	2836.2	2919.1	3003.2	3108.7
7.5°	2429.5	2445.8	2470.9	2498.5	2560.0	2571.3	2640.4	2738.3	2853.8	2976.9	3122.5
10°	2262.5	2278.8	2305.2	2336.5	2413.1	2426.9	2514.8	2645.4	2796.1	2951.8	3137.6
12.5°	2190.9	2195.9	2211.0	2242.4	2308.9	2317.7	2414.4	2563.8	2739.6	2932.9	3160.2
15°	2187.1	2197.2	2198.4	2214.8	2270.0	2273.8	2362.9	2511.1	2704.4	2929.2	3194.1
17.5°	2224.8	2232.3	2221.0	2231.1	2277.5	2283.8	2354.1	2486.0	2693.1	2945.5	3251.8
20°	2325.2	2331.5	2297.6	2283.8	2317.7	2322.7	2391.8	2502.3	2704.4	2979.4	3330.9
22.5°	2538.7	2542.5	2459.6	2403.1	2405.6	2408.1	2468.4	2568.8	2748.4	3040.9	3431.4
25°	2871.4	2868.9	2737.1	2627.8	2565.1	2551.2	2591.4	2676.8	2822.4	3122.5	3560.7
27.5°	3260.6	3241.8	3110.0	2946.7	2809.9	2789.8	2781.0	2817.4	2927.9	3230.5	3718.9
30°	3700.1	3682.5	3540.6	3327.2	3137.6	3104.9	3022.1	3003.2	3084.8	3377.4	3938.6
32.5°	4182.2	4170.9	4001.4	3742.7	3489.1	3451.5	3312.1	3261.9	3325.9	3599.6	4245.0
35°	4586.5	4576.4	4435.8	4169.6	3859.5	3813.1	3671.2	3614.7	3647.3	3884.6	4645.5
37.5°	4951.8	4946.8	4826.3	4616.6	4296.4	4239.9	4080.5	4061.6	4055.4	4260.0	5131.4
40°	5290.8	5278.3	5152.7	5042.2	4804.9	4753.4	4612.8	4596.5	4548.8	4722.1	5681.3
42.5°	5666.2	5633.6	5451.5	5400.0	5336.0	5293.3	5209.2	5211.7	5106.3	5243.1	6263.9
45°	5972.6	5953.7	5766.7	5736.5	5805.6	5788.0	5860.8	5879.7	5675.0	5789.3	6869.0
47.5°	6301.5	6283.9	6125.7	6104.4	6291.5	6296.5	6553.9	6560.2	6230.0	6356.8	7475.4
50°	6707.1	6681.9	6525.0	6551.4	6761.0	6779.9	7250.7	7208.0	6741.0	6933.1	8076.8
52.5°	6974.5	6989.6	6955.7	6998.3	7284.6	7302.2	7936.2	7827.0	7246.9	7501.8	8666.9
55°	7171.6	7201.7	7307.2	7405.1	7837.0	7854.6	8582.8	8415.8	7666.3	8029.1	9221.9
57.5°	7425.2	7382.5	7579.7	7770.5	8361.8	8408.3	9211.8	8983.3	8037.9	8483.6	9602.3
60°	7789.3	7759.2	7912.4	8194.9	8949.4	9023.5	9877.3	9494.3	8310.4	8844.0	9676.4
62.5°	8527.6	8452.2	8476.1	8726.0	9690.2	9788.1	10628.1	9940.1	8446.0	8984.6	9279.6
65°	9631.2	9501.9	9381.3	9554.6	10733.5	10830.2	11475.6	10290.3	8395.7	8712.1	8226.3
67.5°	11021.1	10893.0	10744.8	10908.1	12270.3	12346.9	12521.4	10487.5	8000.3	7662.5	6364.3
70°	12167.4	12119.7	12296.7	12968.4	14724.9	14727.4	13862.3	10324.2	6916.7	5432.7	3682.5
72.5°	12015.4	11986.6	12919.4	14996.1	17818.5	17752.0	15131.7	9088.8	4659.3	2450.8	1379.8
75°	9857.2	10044.3	11489.4	14959.7	18929.7	18920.9	14354.5	5778.0	1927.2	1015.7	713.1
77.5°	5285.8	5582.1	7459.1	11044.9	14777.6	14999.9	10092.0	2021.4	827.4	650.4	493.4
80°	1723.8	1982.5	2973.1	5623.5	9602.3	9560.9	4325.3	793.5	566.2	460.8	341.5
82.5°	732.0	762.1	1328.4	2655.5	4928.0	4851.4	1377.3	455.8	398.0	315.1	210.9
85°	286.3	320.2	586.3	1227.9	2134.4	2088.0	497.2	226.0	254.9	205.9	125.6
87.5°	94.2	114.3	209.7	420.6	664.2	640.3	121.8	77.8	110.5	94.2	45.2
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°	3094.9	3094.9	3094.9	3094.9	3094.9	3094.9	3094.9	3094.9	3094.9	3094.9	3094.9
2.5°	3121.3	3141.3	3165.2	3200.4	3230.5	3255.6	3282.0	3298.3	3304.6	3323.4	3322.1
5°	3143.9	3187.8	3246.8	3304.6	3361.1	3395.0	3425.1	3440.2	3454.0	3464.0	3466.5
7.5°	3181.5	3238.0	3330.9	3406.3	3454.0	3481.6	3501.7	3496.7	3501.7	3504.2	3508.0
10°	3214.2	3293.3	3403.7	3475.3	3511.7	3513.0	3508.0	3490.4	3481.6	3482.8	3485.4
12.5°	3253.1	3341.0	3460.2	3520.5	3530.6	3502.9	3481.6	3451.5	3440.2	3435.1	3432.6
15°	3305.8	3406.3	3521.8	3544.4	3519.3	3484.1	3447.7	3398.7	3373.6	3353.5	3359.8
17.5°	3369.9	3480.3	3569.5	3553.2	3499.2	3441.4	3382.4	3308.3	3256.9	3235.5	3236.8
20°	3459.0	3558.2	3605.9	3534.3	3452.7	3364.8	3264.4	3174.0	3126.3	3104.9	3102.4
22.5°	3567.0	3662.4	3641.0	3501.7	3386.2	3245.6	3120.0	3053.5	3029.6	3014.5	3017.0
25°	3696.3	3777.9	3666.2	3454.0	3276.9	3087.4	2990.7	2969.3	2958.0	2946.7	2946.7
27.5°	3864.5	3908.5	3685.0	3383.7	3106.2	2919.1	2884.0	2887.7	2884.0	2865.1	2868.9
30°	4086.8	4078.0	3702.6	3269.4	2910.3	2767.2	2769.7	2786.0	2788.5	2776.0	2782.3
32.5°	4379.3	4290.2	3711.4	3121.3	2723.3	2634.1	2636.6	2654.2	2666.8	2645.4	2655.5
35°	4733.4	4537.5	3697.5	2935.4	2578.9	2507.3	2488.5	2493.5	2497.3	2477.2	2491.0
37.5°	5146.4	4815.0	3636.0	2729.5	2459.6	2383.0	2342.8	2308.9	2288.8	2270.0	2282.6
40°	5599.7	5117.6	3523.0	2528.6	2326.5	2251.2	2190.9	2126.9	2059.1	2034.0	2045.3
42.5°	6074.3	5428.9	3386.2	2336.5	2173.3	2111.8	2047.8	1954.9	1853.2	1801.7	1808.0
45°	6566.4	5747.8	3251.8	2147.0	2016.4	1990.0	1915.9	1804.2	1693.7	1628.4	1623.4
47.5°	7048.6	6049.2	3054.7	1956.1	1869.5	1898.4	1840.6	1737.7	1614.6	1511.7	1500.4
50°	7509.3	6331.7	2732.0	1762.8	1750.2	1870.7	1815.5	1667.3	1526.7	1394.9	1383.6
52.5°	7966.4	6560.2	2319.0	1587.0	1686.2	1863.2	1782.9	1619.6	1447.6	1309.5	1294.5
55°	8354.3	6678.2	1921.0	1436.3	1593.3	1799.2	1743.9	1563.1	1335.9	1189.0	1176.4
57.5°	8575.3	6582.8	1589.5	1288.2	1465.2	1693.7	1677.4	1442.6	1202.8	1089.8	1074.7
60°	8479.9	6196.1	1318.3	1158.9	1343.4	1579.5	1561.9	1323.3	1101.1	994.4	979.3
62.5°	7953.8	5459.1	1103.6	1045.9	1232.9	1462.7	1446.4	1231.7	1023.3	920.3	904.0
65°	6894.1	4440.8	936.6	951.7	1121.2	1322.1	1345.9	1155.1	961.7	861.3	845.0
67.5°	5258.2	3216.7	806.1	870.1	1012.0	1184.0	1253.0	1099.8	910.3	814.8	799.8
70°	2997.0	1826.8	695.6	791.0	915.3	1055.9	1181.5	1055.9	855.0	775.9	765.9
72.5°	1136.3	838.7	601.4	711.9	822.4	947.9	1102.4	986.8	791.0	732.0	721.9
75°	606.4	511.0	506.0	619.0	715.7	842.5	1003.2	919.1	743.3	773.4	798.5
77.5°	413.1	361.6	423.1	529.8	598.9	725.7	897.7	816.1	644.1	641.6	591.4
80°	286.3	256.1	344.0	426.9	463.3	610.2	783.5	700.6	524.8	489.7	468.3
82.5°	172.0	167.0	257.4	318.9	327.7	470.8	649.1	587.6	429.4	374.1	376.7
85°	94.2	99.2	164.5	187.1	190.8	328.9	508.5	454.5	330.2	277.5	280.0
87.5°	26.4	33.9	60.3	74.1	91.7	170.8	302.6	269.9	165.7	115.5	115.5
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)