

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: P949172

Luminaire Tested: **GALN-SB4A-730-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-730-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18219 lumens
Efficiency: N/A
Efficacy: 159.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 114
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

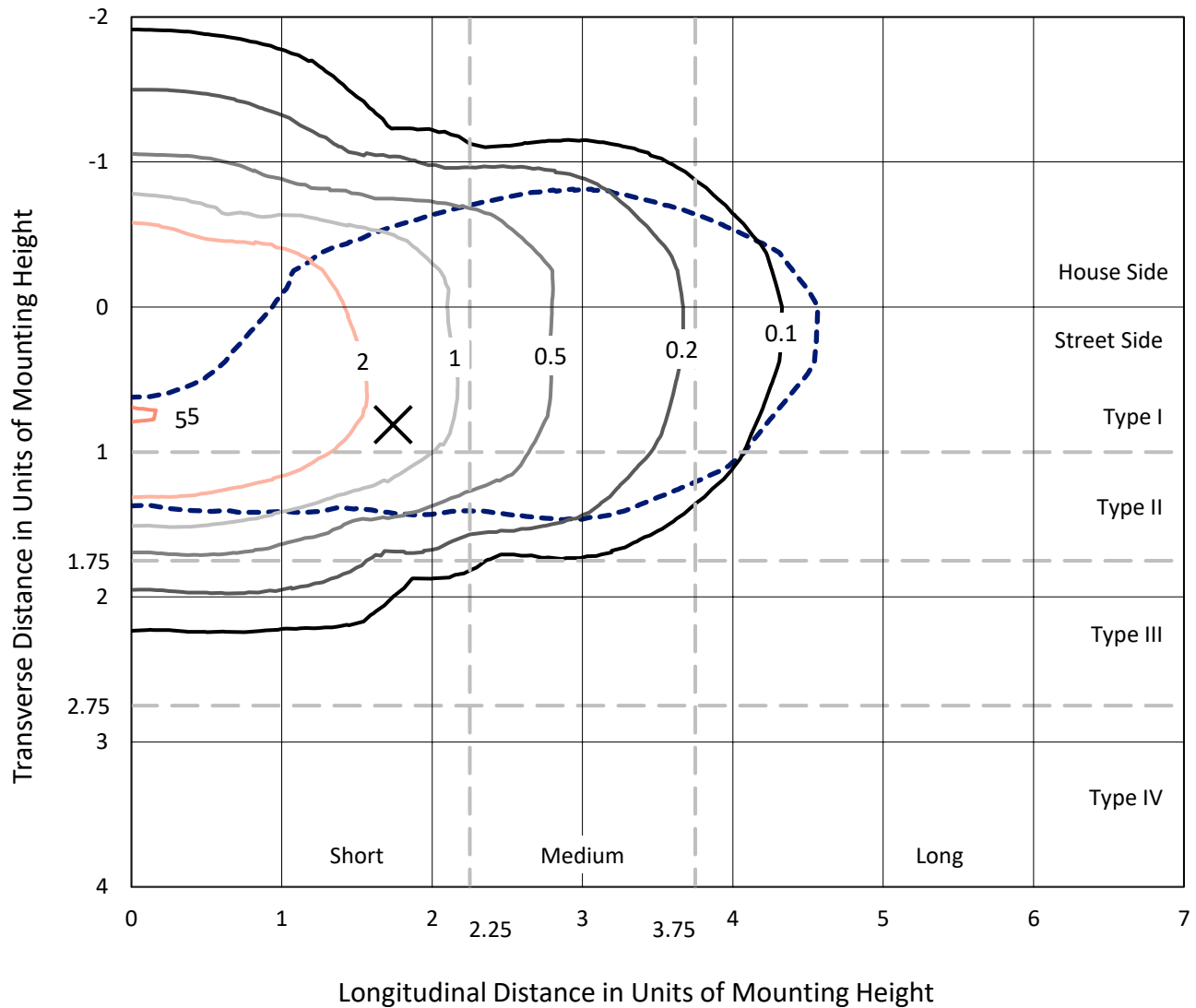


REPORT NUMBER: P949172

CATALOG NUMBER: GALN-SB4A-730-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

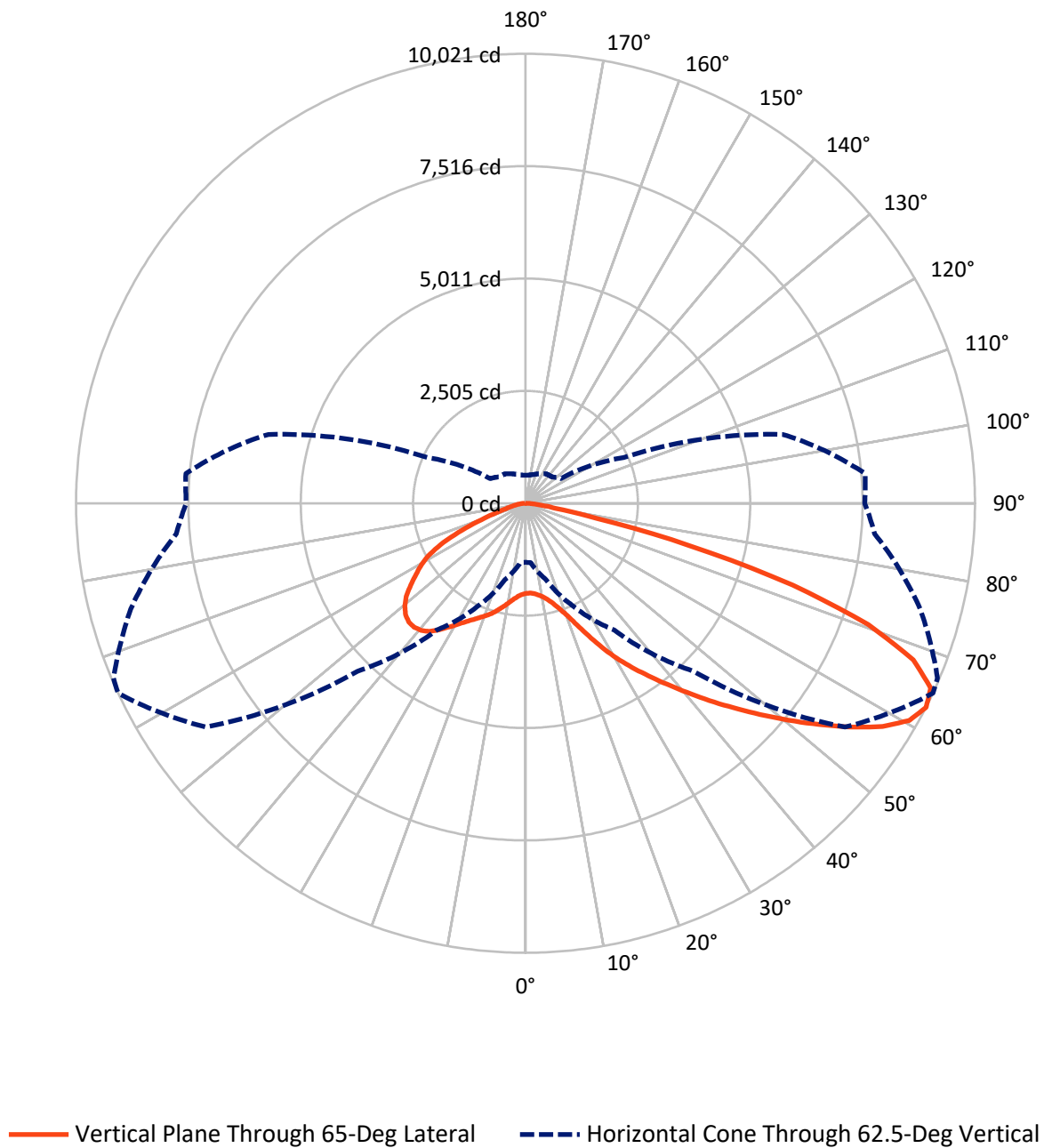


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - N/A

REPORT NUMBER: P949172

CATALOG NUMBER: GALN-SB4A-730-U-T2U

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5749.1	0.0	5749.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	12469.9	0.0	12469.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	18219.0	0.0	18219.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.2	1.1
10°-20°	678.8	3.7
20°-30°	1376.3	7.6
30°-40°	2381.6	13.1
40°-50°	3604.1	19.8
50°-60°	4225.6	23.2
60°-70°	3542.6	19.4
70°-80°	1955.8	10.7
80°-90°	254.1	1.4
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°	18219.0	100.0
0°-180°	18219.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949172

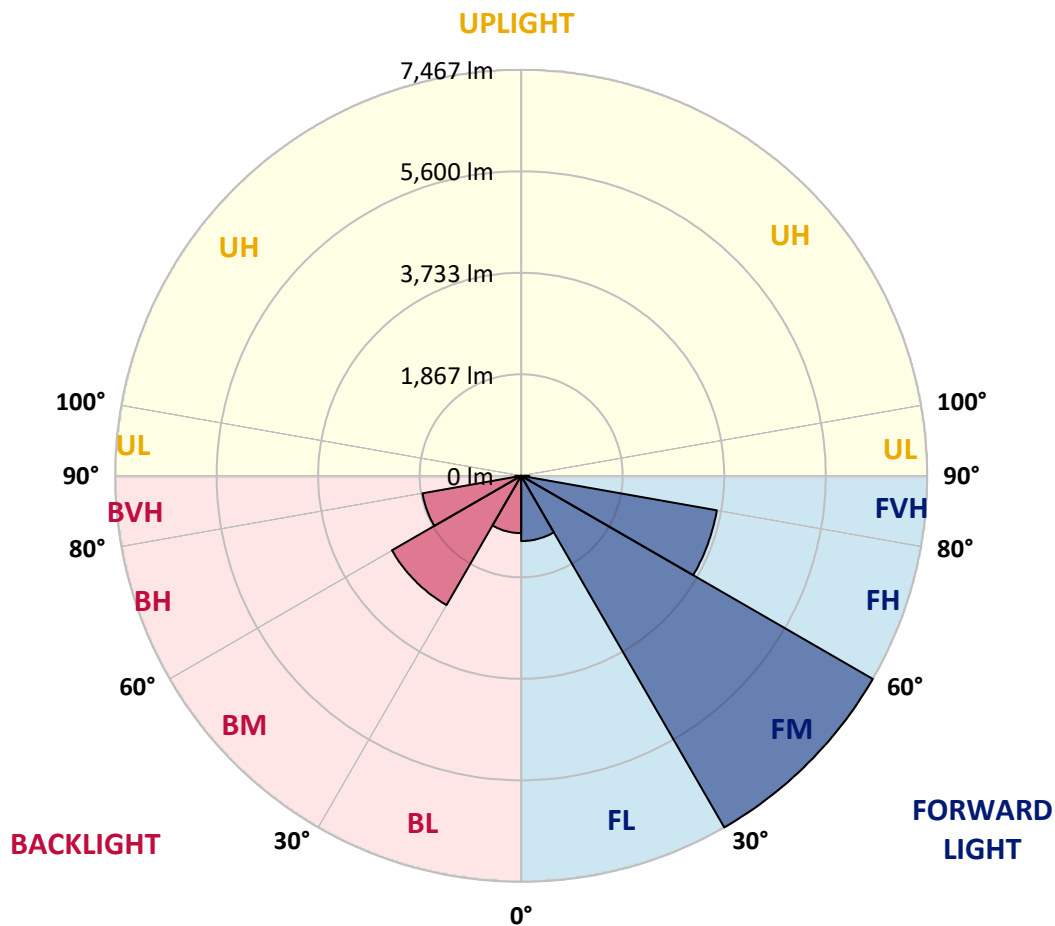
CATALOG NUMBER: GALN-SB4A-730-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1200.9	6.6			
FM	(30°-60°)	7466.7	41.0			
FH	(60°-80°)	3654.2	20.1			G2/5000
FVH	(80°-90°)	148.1	0.8			G2/225
BL	(0°-30°)	1054.3	5.8	B3/2500		
BM	(30°-60°)	2744.5	15.1	B3/5000		
BH	(60°-80°)	1844.3	10.1	B3/2500		G3/2500
BVH	(80°-90°)	106.0	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-G3

Type II Short



REPORT NUMBER: P949172

CATALOG NUMBER: GALN-SB4A-730-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2007.7	2007.7	2007.7	2007.7	2007.7	2007.7	2007.7	2007.7	2007.7	2007.7	2007.7
2.5°	1994.4	1988.8	1993.5	1993.5	1995.4	1994.4	2001.0	2002.9	2005.8	2011.4	2011.4
5°	1974.6	1973.6	1982.1	1989.7	1997.3	2003.9	2012.4	2024.7	2026.6	2033.2	2041.7
7.5°	1968.0	1962.3	1975.5	1985.0	2002.9	2019.0	2041.7	2062.5	2071.0	2073.8	2089.9
10°	2019.0	2009.5	2021.8	2027.5	2042.6	2058.7	2085.2	2118.2	2127.7	2139.0	2157.0
12.5°	2106.0	2095.6	2113.5	2122.0	2136.2	2150.4	2168.3	2200.5	2205.2	2226.0	2243.0
15°	2225.1	2212.8	2224.1	2234.5	2258.1	2271.4	2289.3	2320.5	2320.5	2336.6	2348.9
17.5°	2386.7	2370.6	2379.1	2382.9	2398.0	2417.9	2448.1	2475.5	2489.7	2484.0	2467.0
20°	2627.7	2607.9	2607.9	2589.0	2583.3	2599.4	2639.1	2676.9	2692.0	2662.7	2621.1
22.5°	2989.7	2961.4	2945.3	2881.0	2855.5	2857.4	2897.1	2943.4	2955.7	2903.7	2810.1
25°	3450.1	3405.6	3383.9	3289.4	3231.7	3181.6	3212.8	3272.4	3289.4	3225.1	3073.9
27.5°	3910.4	3913.2	3892.4	3779.0	3683.5	3591.8	3575.8	3638.2	3656.1	3583.3	3396.2
30°	4556.0	4488.9	4449.2	4313.1	4176.9	4048.4	3982.2	4007.7	4012.5	3925.5	3708.1
32.5°	5112.7	5095.7	5010.6	4891.5	4716.7	4515.3	4404.7	4364.1	4356.5	4232.7	3974.7
35°	5747.0	5737.5	5647.7	5505.9	5316.9	5037.1	4837.7	4721.4	4711.9	4538.0	4238.4
37.5°	6391.6	6391.6	6303.7	6148.7	5953.0	5603.3	5299.9	5115.5	5085.3	4858.4	4506.8
40°	6905.8	6874.6	6890.7	6825.5	6601.4	6230.0	5813.1	5545.6	5505.0	5232.8	4792.3
42.5°	7197.9	7187.5	7283.9	7356.7	7265.0	6968.2	6378.4	6011.6	5954.9	5644.9	5121.2
45°	7263.1	7251.8	7423.8	7690.3	7818.9	7697.0	6992.8	6502.2	6433.2	6075.9	5473.8
47.5°	7112.8	7090.1	7342.5	7763.1	8175.2	8389.8	7658.2	7034.4	6934.2	6495.6	5835.8
50°	6661.0	6639.3	7021.1	7579.7	8295.3	8860.5	8380.4	7598.7	7445.5	6945.5	6201.6
52.5°	5678.9	5689.3	6287.6	7055.1	8137.4	9153.5	9002.3	8193.2	8008.9	7405.8	6544.7
55°	4423.6	4446.3	5181.7	6026.7	7506.0	9109.1	9426.7	8805.7	8622.3	7838.7	6899.2
57.5°	3167.4	3267.6	3956.7	4793.2	6293.3	8404.9	9519.3	9388.0	9210.3	8311.4	7246.1
60°	2053.0	2071.0	2779.9	3623.0	4792.3	7153.5	9331.2	9829.4	9690.4	8793.4	7536.3
62.5°	1315.8	1328.0	1760.0	2534.1	3449.1	5292.3	8697.9	10021.3	9978.7	9112.0	7815.1
65°	967.0	957.5	1182.5	1674.9	2323.4	3263.9	7468.2	9928.6	10012.8	9311.4	8045.7
67.5°	807.2	794.0	904.6	1159.8	1711.8	1853.6	5525.8	9326.5	9634.7	9288.7	8214.9
70°	735.4	724.0	791.2	861.1	1335.6	1241.1	2785.6	8108.1	8582.6	9030.7	8187.5
72.5°	622.9	603.1	694.7	764.7	1038.8	951.8	1151.3	6228.1	6806.6	8203.6	7801.9
75°	483.0	469.8	548.2	673.0	780.8	742.9	727.8	3781.8	4413.2	6344.3	6825.5
77.5°	382.8	364.9	436.7	524.6	702.3	560.5	530.3	1628.6	2254.4	4050.3	5107.0
80°	288.3	272.2	331.8	415.0	539.7	422.5	343.1	664.5	849.8	2052.1	2568.2
82.5°	205.1	190.9	231.6	304.4	363.0	379.0	210.8	372.4	418.7	791.2	573.8
85°	131.4	122.9	155.0	190.9	230.6	243.9	128.6	194.7	213.6	326.1	239.1
87.5°	71.8	58.6	83.2	88.9	106.8	97.4	61.4	70.9	76.6	118.2	101.1
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: P949172

CATALOG NUMBER: GALN-SB4A-730-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2007.7	2007.7	2007.7	2007.7	2007.7	2007.7	2007.7	2007.7	2007.7	2007.7	2007.7
2.5°	2015.2	2018.1	2027.5	2030.3	2037.0	2045.5	2051.1	2056.8	2056.8	2062.5	2062.5
5°	2042.6	2049.2	2069.1	2079.5	2096.5	2113.5	2123.9	2136.2	2143.8	2147.5	2149.4
7.5°	2095.6	2106.0	2134.3	2152.3	2181.6	2205.2	2221.3	2238.3	2242.1	2252.5	2248.7
10°	2167.4	2179.7	2211.8	2245.9	2280.8	2310.1	2325.2	2337.5	2342.3	2344.2	2339.4
12.5°	2249.6	2267.6	2309.2	2350.8	2387.6	2413.2	2416.9	2414.1	2400.9	2389.5	2389.5
15°	2350.8	2366.8	2413.2	2458.5	2494.4	2499.2	2475.5	2460.4	2444.3	2441.5	2441.5
17.5°	2471.8	2480.3	2522.8	2567.2	2570.1	2554.0	2519.0	2504.8	2489.7	2479.3	2480.3
20°	2612.6	2609.8	2640.0	2658.9	2639.1	2589.9	2537.0	2513.3	2498.2	2485.9	2486.9
22.5°	2780.8	2759.1	2755.3	2750.6	2697.7	2594.6	2522.8	2492.6	2468.9	2451.9	2457.6
25°	3025.7	2942.5	2884.8	2852.7	2733.6	2569.1	2477.4	2410.3	2365.9	2336.6	2347.9
27.5°	3331.9	3192.0	3046.5	2968.0	2733.6	2517.1	2367.8	2259.1	2186.3	2156.1	2171.2
30°	3624.0	3477.5	3262.9	3106.9	2727.0	2432.1	2191.0	2039.8	1954.7	1924.5	1942.4
32.5°	3873.5	3713.8	3492.6	3259.1	2710.9	2294.1	1971.7	1804.4	1722.2	1686.3	1704.2
35°	4105.1	3935.0	3723.2	3426.4	2668.4	2091.8	1730.7	1603.1	1511.4	1453.8	1472.7
37.5°	4342.4	4140.1	3941.6	3577.7	2591.8	1855.5	1545.4	1436.7	1329.0	1251.5	1272.3
40°	4600.4	4358.4	4175.1	3667.5	2466.1	1630.5	1401.8	1302.5	1188.1	1105.9	1122.0
42.5°	4901.9	4620.3	4435.0	3713.8	2294.1	1470.8	1308.2	1210.8	1103.1	1036.0	1049.2
45°	5216.7	4908.5	4672.2	3712.8	2102.2	1396.1	1277.9	1181.5	1062.4	992.5	1003.8
47.5°	5546.6	5210.1	4877.4	3652.3	1935.8	1406.5	1260.9	1118.2	986.8	918.8	928.2
50°	5877.4	5540.0	5075.9	3538.9	1864.9	1383.8	1197.6	1029.3	874.3	812.9	816.7
52.5°	6205.4	5890.6	5246.9	3377.3	1793.1	1299.7	1116.3	914.0	828.0	785.5	785.5
55°	6535.3	6237.5	5433.1	3141.9	1613.5	1201.4	980.2	870.6	791.2	752.4	748.6
57.5°	6866.1	6638.3	5609.9	2906.6	1387.6	1080.4	905.5	817.6	754.3	721.2	715.5
60°	7210.2	7096.7	5792.3	2690.1	1164.5	925.4	850.7	775.1	710.8	673.9	671.1
62.5°	7564.6	7601.5	5935.1	2411.3	959.4	830.9	801.5	724.0	661.7	626.7	625.7
65°	7921.9	8088.3	6028.6	2024.7	777.9	741.1	748.6	668.3	604.9	574.7	573.8
67.5°	8191.3	8439.0	6002.2	1532.2	638.0	656.0	682.5	609.7	550.1	526.5	527.4
70°	8221.6	8397.4	5741.3	1049.2	534.1	572.8	608.7	552.0	490.6	473.6	474.5
72.5°	7818.9	7830.2	5014.4	685.3	451.8	502.9	531.2	493.4	433.9	416.8	415.9
75°	6763.1	6475.7	3681.6	451.8	378.1	432.0	458.4	432.0	374.3	378.1	364.9
77.5°	5124.1	4586.2	2235.5	321.4	315.7	363.0	398.9	380.0	330.8	371.5	327.0
80°	2640.0	2481.2	997.2	240.1	249.5	290.2	328.0	303.4	261.8	249.5	227.8
82.5°	604.9	703.2	393.2	172.0	180.5	208.9	250.5	227.8	188.1	158.8	156.9
85°	211.7	231.6	173.9	107.8	105.9	130.4	170.1	152.2	127.6	102.1	107.8
87.5°	67.1	87.9	65.2	43.5	45.4	58.6	78.5	71.8	59.5	38.8	40.6
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)