

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: P953442

Luminaire Tested: **GALN-SB7A-730-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27200 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 199.1
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

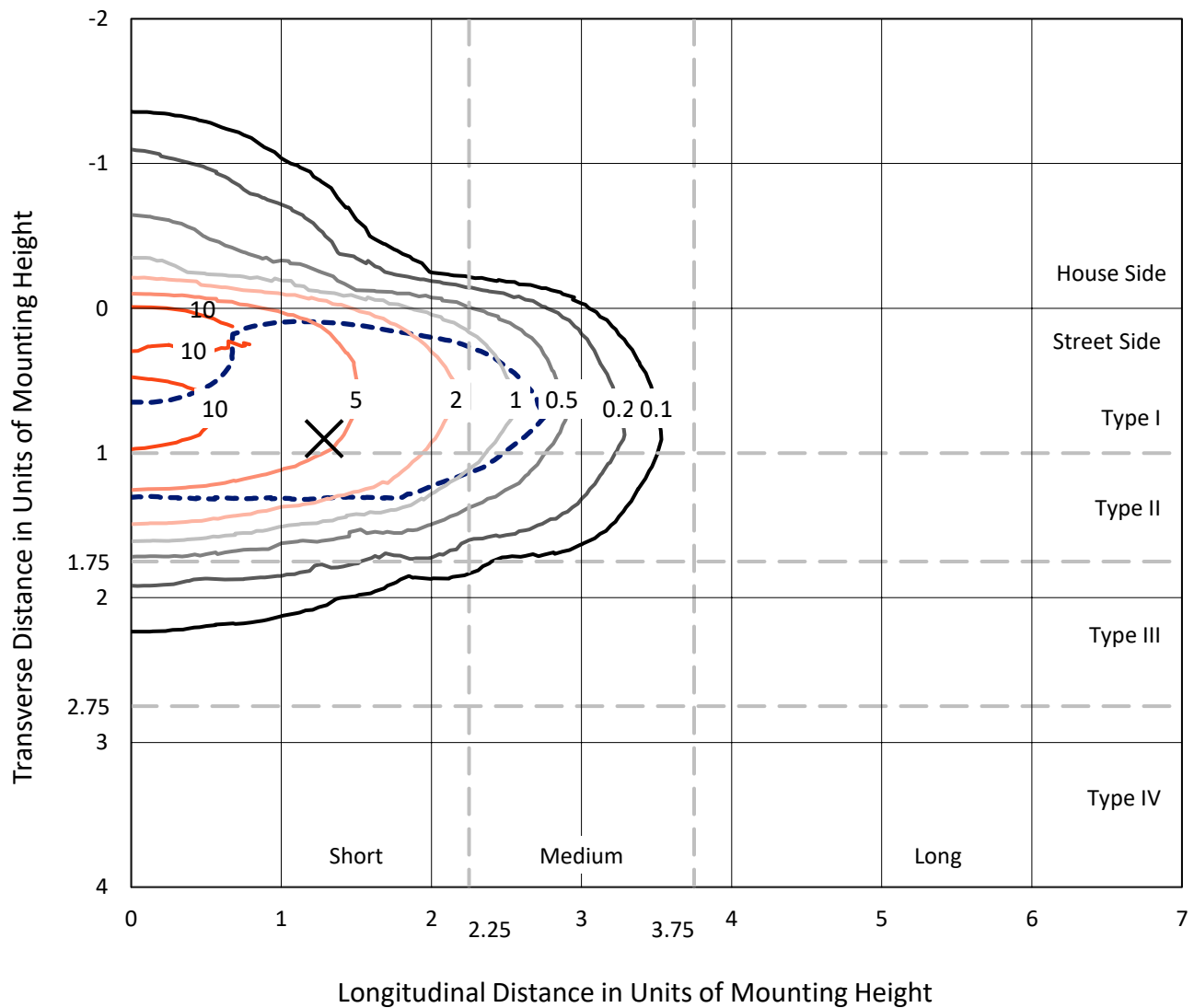


REPORT NUMBER: P953442

CATALOG NUMBER: GALN-SB7A-730-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

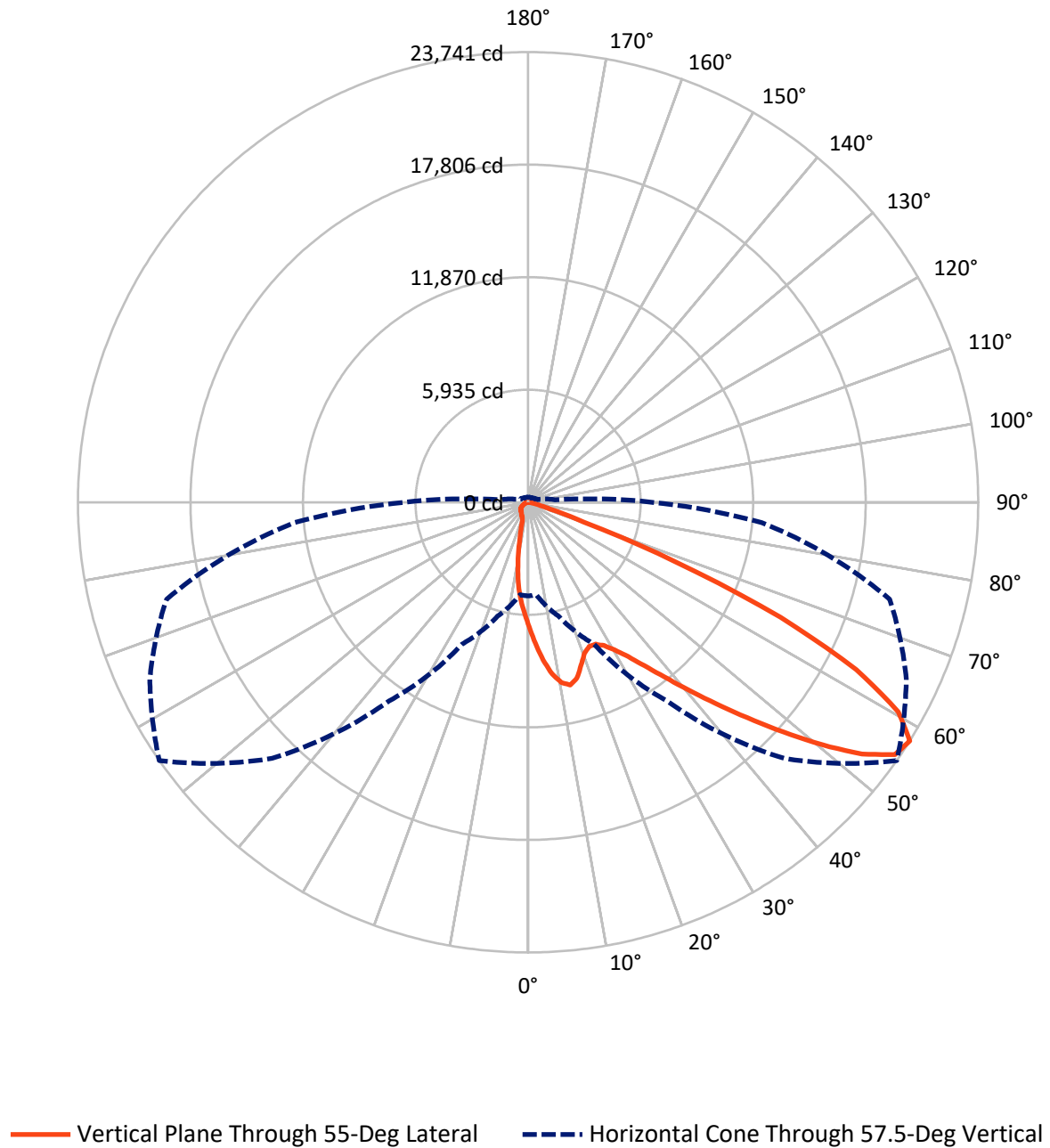
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
Type II - Short - N/A

REPORT NUMBER: P953442
CATALOG NUMBER: GALN-SB7A-730-U-AFL-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2124.2	0.0	2124.2
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	25075.8	0.0	25075.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	27200.0	0.0	27200.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.9	2.2
10°-20°	1473.1	5.4
20°-30°	2357.0	8.7
30°-40°	3989.3	14.7
40°-50°	6549.6	24.1
50°-60°	7198.5	26.5
60°-70°	4129.1	15.2
70°-80°	843.7	3.1
80°-90°	49.8	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°	27200.0	100.0
0°-180°	27200.0	100.0

Coefficient of Utilization



REPORT NUMBER: P953442

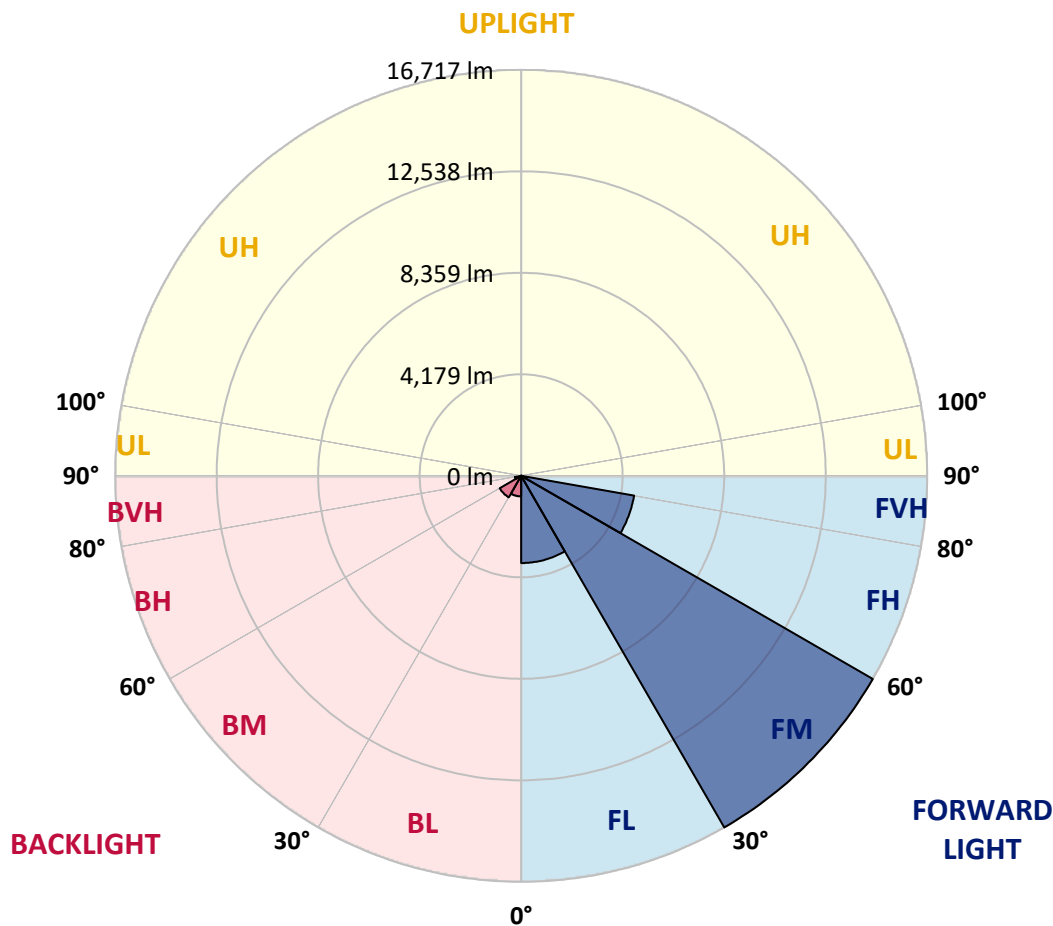
CATALOG NUMBER: GALN-SB7A-730-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3591.9	13.2			
FM	(30°-60°)	16717.3	61.5			
FH	(60°-80°)	4720.1	17.4			G2/5000
FVH	(80°-90°)	46.4	0.2			G1/100
BL	(0°-30°)	848.0	3.1	B2/1000		
BM	(30°-60°)	1020.2	3.8	B2/2500		
BH	(60°-80°)	252.6	0.9	B1/500		G1/500
BVH	(80°-90°)	3.4	0.0			G0/10
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 Short



REPORT NUMBER: P953442

CATALOG NUMBER: GALN-SB7A-730-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6554.5	6554.5	6554.5	6554.5	6554.5	6554.5	6554.5	6554.5	6554.5	6554.5	6554.5
2.5°	8132.8	8030.5	8015.4	7995.3	7800.7	7654.8	7443.4	7212.0	6952.0	6687.0	6569.6
5°	9395.7	9315.2	9300.1	9206.2	8984.8	8736.6	8360.9	7886.2	7401.5	6831.3	6586.4
7.5°	9640.6	9625.5	9694.3	9690.9	9660.7	9464.5	9147.5	8582.3	7854.4	7009.1	6630.0
10°	8548.7	8587.3	8791.9	8971.4	9456.1	9737.9	9669.1	9202.8	8320.6	7212.0	6678.6
12.5°	7554.1	7508.9	7654.8	7857.7	8421.3	9259.9	9885.5	9721.1	8854.0	7441.8	6750.8
15°	6930.2	6911.8	6994.0	7087.9	7517.2	8362.6	9633.9	10142.1	9367.2	7713.5	6859.8
17.5°	6730.6	6715.5	6740.7	6764.2	7042.6	7696.7	9035.1	10400.4	9858.6	8023.8	6980.5
20°	6893.3	6873.2	6869.8	6851.4	6967.1	7413.3	8493.4	10418.8	10299.7	8305.5	7084.5
22.5°	7368.0	7344.5	7262.3	7188.5	7198.6	7451.8	8251.9	10234.3	10631.8	8568.9	7149.9
25°	8228.4	8189.8	8018.7	7770.5	7612.8	7720.2	8288.8	9991.1	10948.8	8775.2	7118.1
27.5°	9305.2	9254.8	9035.1	8666.1	8305.5	8174.7	8555.4	9823.4	11212.1	8932.8	7049.3
30°	10360.1	10294.7	10078.3	9791.5	9264.9	8852.3	9036.8	9897.2	11525.8	9097.2	6958.7
32.5°	11498.9	11436.9	11150.1	10794.5	10358.4	9803.3	9695.9	10257.8	11909.9	9327.0	6895.0
35°	12939.7	12842.4	12434.8	11950.1	11487.2	10925.3	10588.2	10880.0	12421.4	9677.5	6930.2
37.5°	14580.0	14449.1	14009.7	13340.5	12736.7	12107.8	11675.0	11735.4	13171.1	10147.1	7039.2
40°	16126.4	16007.3	15601.4	14970.8	14212.7	13449.5	12988.3	12854.1	14206.0	10719.0	7230.4
42.5°	17053.9	16946.5	16775.4	16508.8	15869.7	15091.5	14509.5	14219.4	15430.3	11403.3	7463.6
45°	17105.8	17011.9	17241.7	17552.0	17426.2	16907.9	16198.5	15666.8	16659.7	12045.7	7705.1
47.5°	16274.0	16210.2	16907.9	17991.4	18531.5	18749.5	18095.4	16993.5	17674.4	12506.9	7804.0
50°	14006.4	13982.9	15418.6	17407.7	18952.5	20363.0	20096.3	18227.9	18461.0	12745.1	7710.1
52.5°	12144.7	12059.1	12896.1	15539.3	18340.3	21211.7	22051.9	19438.8	19011.2	12790.4	7490.4
55°	9211.2	9135.8	10185.7	12413.0	16366.2	20909.8	23482.6	20688.4	19405.3	12674.7	7096.3
57.5°	4941.1	4894.1	6220.8	8261.9	12793.7	19098.4	23740.9	22010.0	19737.4	12367.7	6544.5
60°	1923.8	1915.4	2411.8	4008.5	7775.5	15537.7	22437.7	22803.3	19945.4	11990.4	6083.2
62.5°	1164.0	1189.1	1269.6	1799.6	3434.9	9652.3	19433.8	21901.0	20084.6	11644.9	5702.5
65°	962.7	964.4	974.5	1236.1	1645.3	4038.7	14630.3	18932.3	19740.7	11029.3	5162.4
67.5°	825.2	840.3	878.9	981.2	1160.6	1771.1	8422.9	14665.5	17649.3	9597.0	4320.5
70°	650.8	670.9	719.5	806.7	895.6	1108.6	3112.9	9758.0	13483.1	7233.8	3267.2
72.5°	548.4	546.8	571.9	655.8	711.1	779.9	1197.5	5467.7	7835.9	3453.4	1616.8
75°	424.3	441.1	473.0	548.4	582.0	565.2	649.1	1997.6	2807.6	1046.6	550.1
77.5°	332.1	345.5	374.0	447.8	481.4	400.9	374.0	714.5	902.3	375.7	248.2
80°	149.3	161.0	254.9	330.4	392.5	276.7	202.9	365.6	400.9	171.1	125.8
82.5°	26.8	45.3	149.3	174.4	201.3	179.5	105.7	189.5	196.2	68.8	43.6
85°	1.7	3.4	52.0	63.7	80.5	58.7	31.9	75.5	65.4	23.5	16.8
87.5°	0.0	0.0	0.0	1.7	1.7	8.4	10.1	13.4	10.1	8.4	6.7
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: P953442

CATALOG NUMBER: GALN-SB7A-730-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6554.5	6554.5	6554.5	6554.5	6554.5	6554.5	6554.5	6554.5	6554.5	6554.5
2.5°	6448.9	6210.7	5979.2	5789.7	5679.0	5491.2	5367.1	5346.9	5294.9	5340.2
5°	6324.8	5898.7	5467.7	5081.9	4764.9	4355.7	4050.5	3921.3	3808.9	3847.5
7.5°	6266.0	5593.5	4922.6	4263.5	3585.9	2931.8	2445.4	2242.4	2088.1	2109.9
10°	6187.2	5276.5	4224.9	3218.6	2311.2	1665.5	1330.0	1205.9	1137.1	1138.8
12.5°	6126.8	4897.4	3414.8	2182.0	1407.2	1063.3	959.4	929.2	909.0	910.7
15°	6096.7	4451.3	2614.8	1454.1	1006.3	900.7	875.5	862.1	848.7	847.0
17.5°	6046.3	3954.9	1913.7	1061.7	880.5	843.6	821.8	806.7	790.0	786.6
20°	5970.9	3391.3	1398.8	897.3	825.2	796.7	766.5	746.4	726.2	722.9
22.5°	5831.7	2795.9	1075.1	830.2	784.9	753.1	716.2	692.7	672.6	669.2
25°	5573.4	2237.4	905.7	788.3	749.7	711.1	670.9	639.0	620.6	617.2
27.5°	5246.3	1757.7	821.8	749.7	704.4	669.2	623.9	593.7	577.0	573.6
30°	4860.5	1353.5	773.2	706.1	650.8	620.6	580.3	555.2	545.1	545.1
32.5°	4444.6	1081.8	753.1	662.5	603.8	570.3	538.4	528.3	525.0	523.3
35°	4053.8	939.2	743.0	627.3	561.9	530.0	516.6	518.3	525.0	525.0
37.5°	3706.6	894.0	738.0	602.1	525.0	496.5	504.8	519.9	513.2	513.2
40°	3393.0	899.0	734.6	583.7	494.8	478.0	494.8	483.0	466.3	464.6
42.5°	3153.2	940.9	727.9	568.6	476.3	464.6	457.9	439.4	437.8	441.1
45°	2978.7	977.8	726.2	561.9	456.2	434.4	426.0	407.6	441.1	449.5
47.5°	2772.4	977.8	726.2	538.4	422.7	414.3	400.9	380.7	414.3	422.7
50°	2505.7	915.8	697.7	511.5	395.8	390.8	367.3	342.2	335.4	340.5
52.5°	2168.6	803.4	625.6	474.6	369.0	358.9	330.4	312.0	306.9	306.9
55°	1784.5	672.6	528.3	421.0	340.5	322.0	301.9	293.5	288.5	285.1
57.5°	1450.8	551.8	424.3	374.0	313.6	290.2	283.4	273.4	265.0	260.0
60°	1190.8	434.4	350.5	332.1	286.8	265.0	263.3	249.9	228.1	224.7
62.5°	919.1	318.7	295.2	288.5	260.0	241.5	238.2	211.3	177.8	171.1
65°	649.1	248.2	238.2	253.3	231.5	214.7	206.3	166.0	130.8	125.8
67.5°	456.2	208.0	187.8	221.4	201.3	179.5	174.4	140.9	109.0	105.7
70°	325.4	169.4	154.3	189.5	161.0	157.7	147.6	117.4	88.9	85.5
72.5°	229.8	129.1	119.1	164.4	110.7	135.9	120.8	90.6	67.1	63.7
75°	169.4	92.2	83.9	95.6	80.5	102.3	85.5	60.4	41.9	40.3
77.5°	124.1	58.7	50.3	47.0	47.0	63.7	47.0	25.2	18.4	16.8
80°	87.2	26.8	23.5	20.1	18.4	15.1	6.7	3.4	1.7	1.7
82.5°	52.0	11.7	11.7	8.4	5.0	0.0	0.0	0.0	0.0	0.0
85°	11.7	5.0	5.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	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

(END OF REPORT)