

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: P456957

Luminaire Tested: **GALN-SA8B-730-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456957  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8B-730-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34421 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

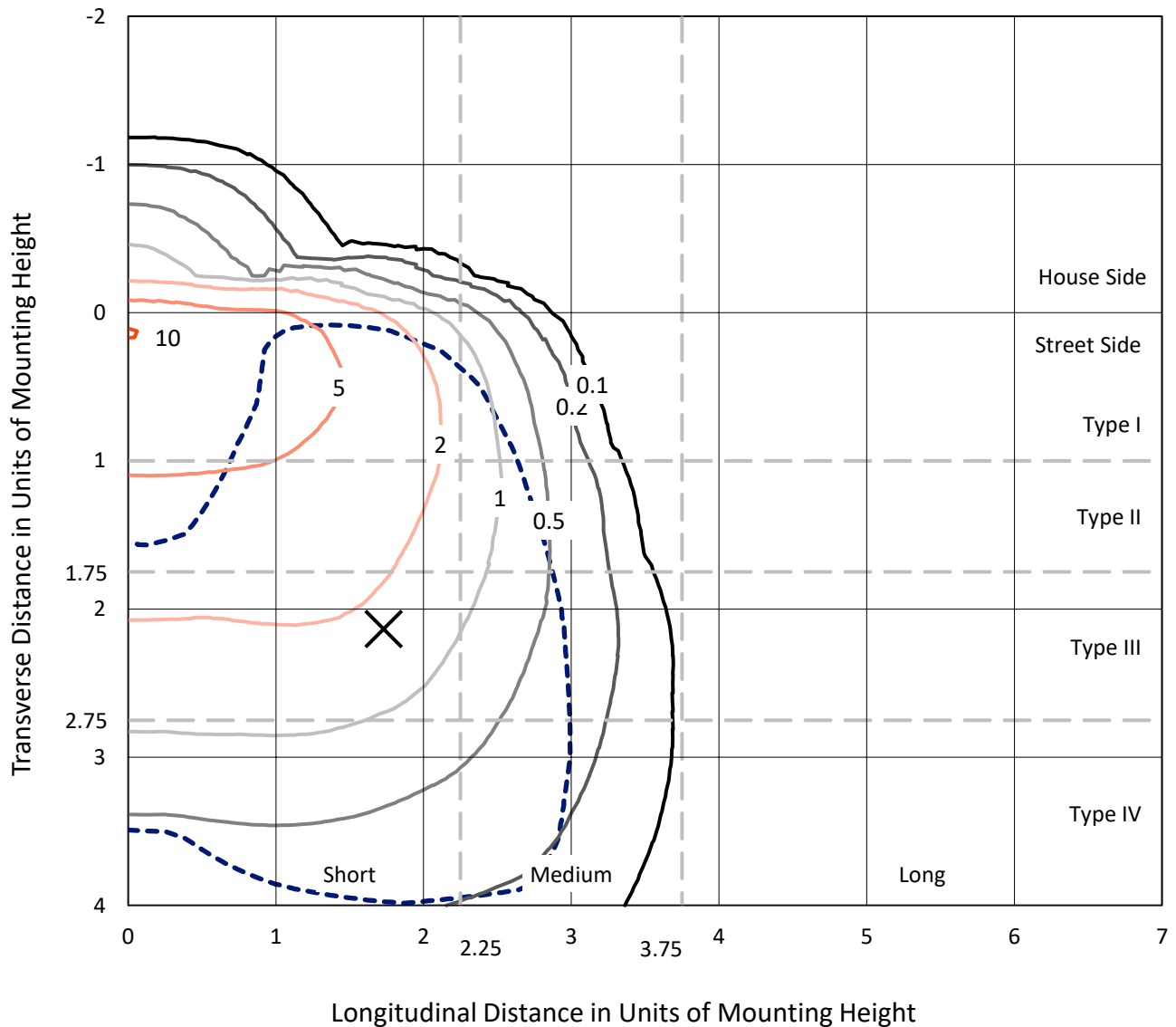
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P456957  
 CATALOG NUMBER: GALN-SA8B-730-U-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

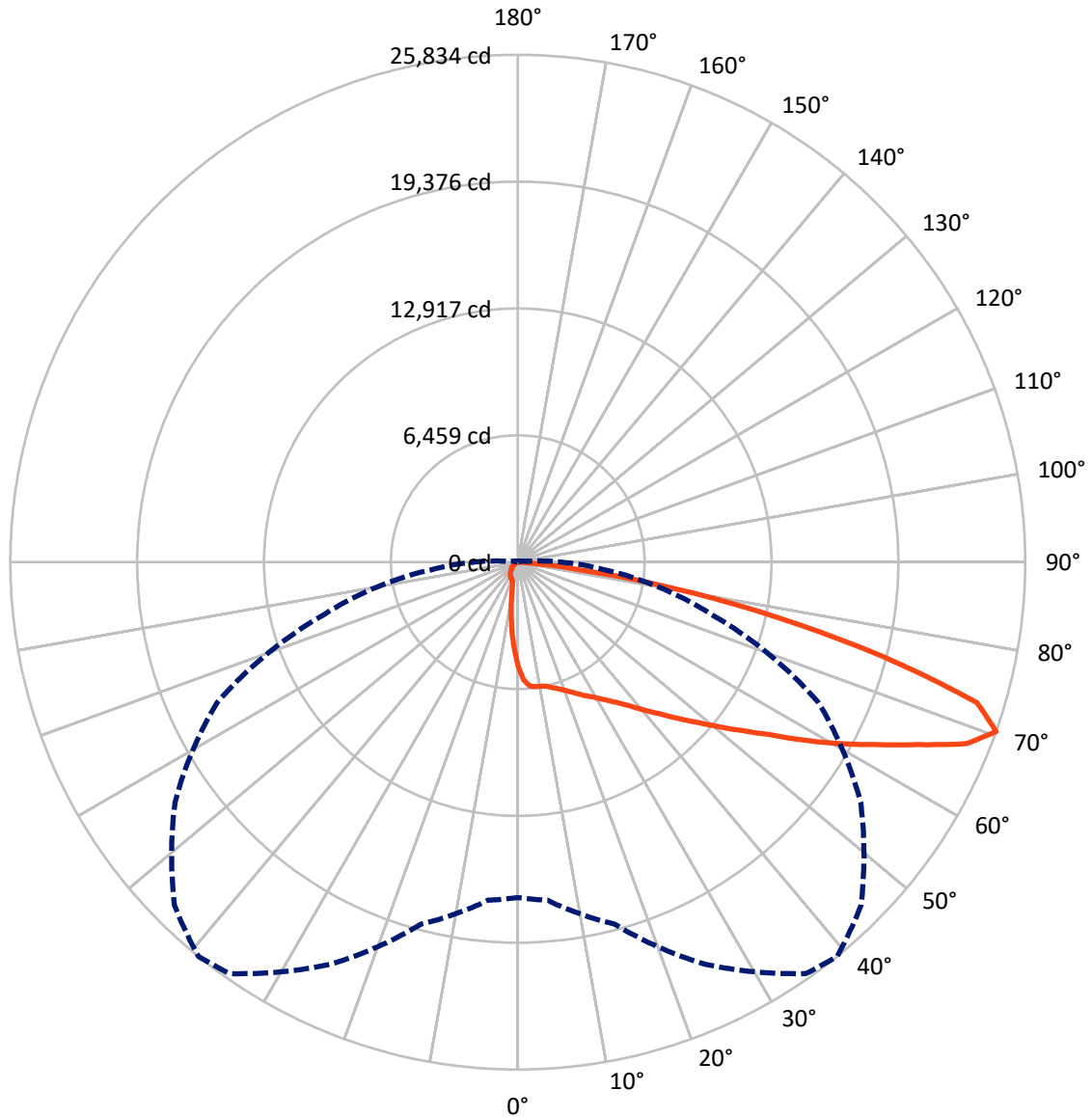
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type IV - Short - N/A

REPORT NUMBER: P456957  
CATALOG NUMBER: GALN-SA8B-730-U-SL4-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P456957

CATALOG NUMBER: GALN-SA8B-730-U-SL4-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2244.4	0.0	2244.4
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	32176.6	0.0	32176.6
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	34421.0	0.0	34421.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	458.1	1.3
10°-20°	1190.5	3.5
20°-30°	1994.3	5.8
30°-40°	3093.0	9.0
40°-50°	4901.5	14.2
50°-60°	7184.8	20.9
60°-70°	9209.2	26.8
70°-80°	5786.8	16.8
80°-90°	602.8	1.8
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°	34421.0	100.0
0°-180°	34421.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P456957

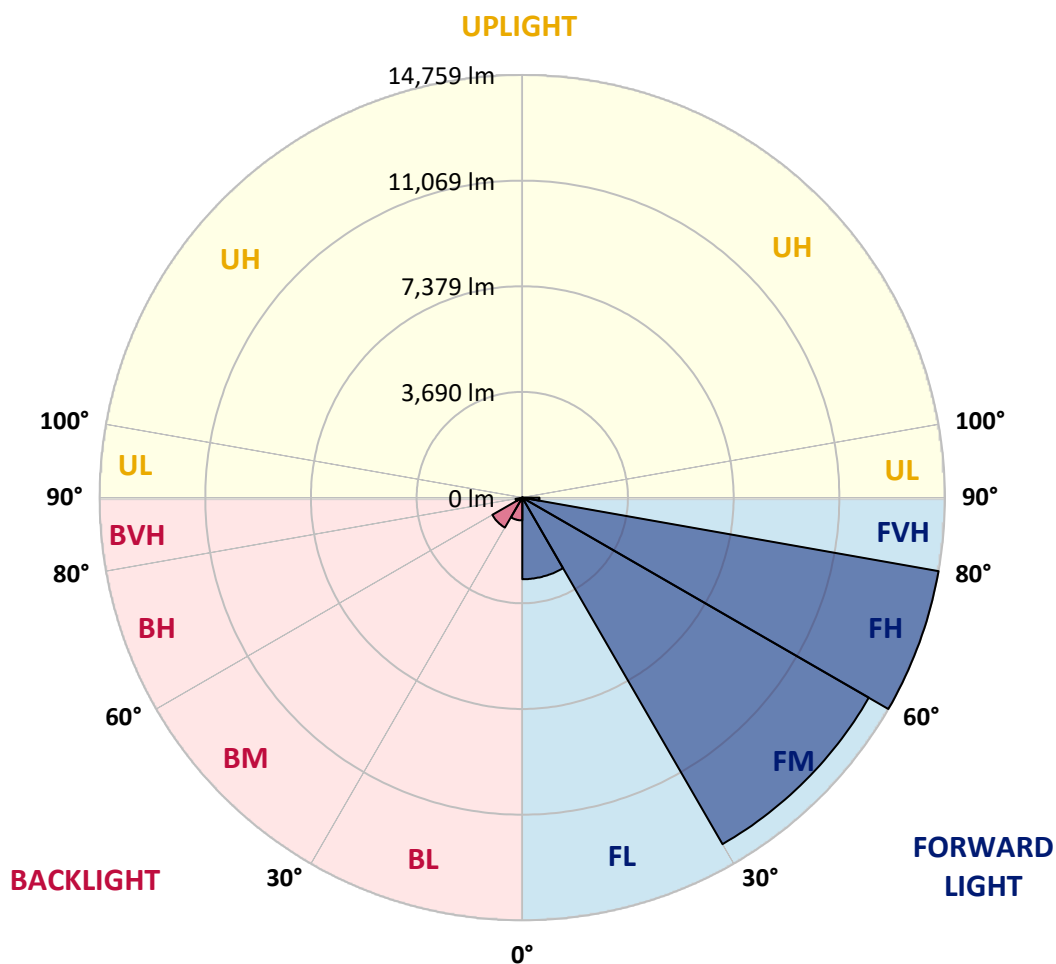
CATALOG NUMBER: GALN-SA8B-730-U-SL4-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2848.2	8.3			
FM	(30°-60°)	13971.4	40.6			
FH	(60°-80°)	14758.6	42.9			G5
FVH	(80°-90°)	598.4	1.7			G4/750
BL	(0°-30°)	794.7	2.3	B2/1000		
BM	(30°-60°)	1207.9	3.5	B2/2500		
BH	(60°-80°)	237.4	0.7	B1/500		G1/500
BVH	(80°-90°)	4.4	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-G5**

Type IV Short





REPORT NUMBER: P456957

CATALOG NUMBER: GALN-SA8B-730-U-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5370.9	5370.9	5370.9	5370.9	5370.9	5370.9	5370.9	5370.9	5370.9	5370.9	5370.9
2.5°	6205.9	6185.0	6157.3	6124.9	6032.4	6016.2	5960.7	5842.7	5701.6	5586.0	5426.4
5°	6499.6	6511.2	6490.4	6432.5	6365.5	6326.1	6256.7	6074.0	5891.3	5657.7	5396.3
7.5°	6566.7	6589.8	6564.4	6508.9	6444.1	6402.5	6347.0	6189.7	5976.9	5710.9	5352.4
10°	6559.8	6587.5	6571.3	6520.4	6467.2	6427.9	6367.8	6242.9	6071.7	5791.8	5366.2
12.5°	6548.2	6585.2	6582.9	6557.4	6513.5	6483.4	6446.4	6335.4	6175.8	5909.8	5442.6
15°	6515.8	6562.1	6603.7	6624.5	6626.8	6626.8	6580.6	6462.6	6309.9	6064.8	5542.0
17.5°	6529.7	6582.9	6687.0	6747.1	6788.7	6784.1	6735.5	6608.3	6439.5	6224.4	5646.1
20°	6615.3	6687.0	6832.7	6953.0	6994.6	6980.7	6916.0	6767.9	6575.9	6360.8	5747.9
22.5°	6825.8	6890.5	7073.2	7214.3	7244.4	7207.4	7114.9	6913.6	6740.2	6508.9	5870.5
25°	7140.3	7216.7	7385.5	7491.9	7491.9	7471.1	7341.6	7105.6	6925.2	6714.7	6030.1
27.5°	7522.0	7586.7	7753.3	7848.1	7792.6	7732.5	7602.9	7318.4	7145.0	6973.8	6222.1
30°	7908.3	7949.9	8125.7	8167.3	8109.5	8033.2	7894.4	7609.9	7457.2	7325.4	6499.6
32.5°	8273.7	8363.9	8509.6	8500.4	8421.7	8384.7	8257.5	7954.5	7868.9	7855.1	6888.2
35°	8639.2	8708.6	8838.1	8870.5	8801.1	8794.1	8701.6	8477.3	8479.6	8569.8	7494.2
37.5°	8953.7	9016.2	9168.9	9240.6	9254.4	9289.1	9252.1	9104.1	9314.6	9562.1	8296.8
40°	9217.4	9305.3	9499.6	9624.5	9767.9	9895.1	9902.1	9934.5	10357.8	10783.3	9344.6
42.5°	9423.3	9545.9	9828.1	10059.4	10387.8	10549.7	10679.3	10857.4	11569.8	12205.9	10579.8
45°	9691.6	9832.7	10184.3	10547.4	11060.9	11326.9	11507.3	11983.8	12994.6	13862.0	11847.3
47.5°	10135.7	10209.7	10568.2	11097.9	11773.3	12152.7	12504.2	13225.9	14523.5	15300.7	12902.1
50°	10707.0	10755.6	11026.2	11761.8	12636.1	13135.7	13776.4	14625.3	16110.3	16494.2	13498.8
52.5°	11338.5	11354.7	11558.2	12492.7	13602.9	14232.1	14949.1	15996.9	17403.2	17345.4	13894.4
55°	12071.7	12048.6	12222.1	13286.0	14747.9	15467.2	16302.2	17400.9	18525.1	17949.1	14121.1
57.5°	12911.3	12848.9	13017.7	14338.5	16214.3	17074.8	17923.7	18613.0	19394.8	18455.7	14229.8
60°	13790.3	13665.4	13866.6	15520.4	17942.2	18758.7	19464.2	19649.2	20310.7	18858.1	14042.4
62.5°	14491.1	14493.4	14868.2	16778.7	19718.6	20433.3	20808.0	20974.6	21099.5	18770.2	13057.1
65°	15585.2	15622.2	16221.3	18525.1	21774.9	22394.8	22651.5	22110.3	21134.2	17678.5	11576.7
67.5°	16714.0	16831.9	17928.3	20930.6	24150.4	24650.0	24319.2	22330.0	20190.4	15187.4	8778.0
70°	17081.7	17276.0	19082.5	22586.7	25575.2	25834.2	24714.7	21305.3	16878.2	10154.2	4417.9
72.5°	15652.3	15966.8	18418.7	21983.0	24666.2	24441.8	22112.6	17868.2	10730.1	3855.8	1348.5
75°	11037.8	11176.6	15307.6	18235.9	19838.9	19202.8	16820.4	11518.9	4413.3	1082.5	462.6
77.5°	5699.3	5632.2	9104.1	12099.5	14148.8	13489.6	11014.7	5963.0	1672.3	451.0	286.8
80°	2946.8	2995.4	3939.1	6340.0	8636.9	7947.6	5872.8	2764.1	890.5	249.8	219.7
82.5°	1651.5	1549.7	2264.5	2768.7	4038.6	3166.5	2252.9	1956.8	388.6	150.3	208.2
85°	300.7	314.6	1242.1	1496.5	1401.7	890.5	726.3	1306.9	113.3	83.3	145.7
87.5°	4.6	4.6	240.6	430.2	272.9	124.9	229.0	187.4	23.1	32.4	25.4
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: P456957

CATALOG NUMBER: GALN-SA8B-730-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5370.9	5370.9	5370.9	5370.9	5370.9	5370.9	5370.9	5370.9	5370.9	5370.9	5370.9
2.5°	5345.4	5257.5	5093.3	4931.4	4725.5	4556.7	4443.3	4325.4	4205.1	4214.3	4242.1
5°	5252.9	5100.2	4776.4	4434.1	4105.6	3809.6	3518.1	3256.7	3150.3	3053.2	3057.8
7.5°	5160.4	4945.3	4471.1	3934.5	3437.2	2932.9	2567.5	2266.8	2107.2	1986.9	1952.2
10°	5118.7	4834.2	4191.2	3453.4	2747.9	2197.4	1727.8	1482.7	1293.0	1232.8	1249.0
12.5°	5137.2	4778.7	3939.1	3018.5	2178.9	1531.2	1202.8	1077.9	1036.2	1029.3	1024.7
15°	5171.9	4739.4	3691.6	2537.4	1600.6	1138.0	1010.8	987.7	983.0	978.4	980.7
17.5°	5218.2	4704.7	3427.9	2086.4	1228.2	994.6	957.6	946.0	943.7	943.7	943.7
20°	5264.5	4665.4	3134.2	1683.9	1024.7	939.1	916.0	909.0	906.7	906.7	904.4
22.5°	5317.7	4630.7	2835.8	1323.1	943.7	899.8	879.0	874.3	872.0	869.7	869.7
25°	5394.0	4586.7	2518.9	1082.5	892.8	862.8	841.9	837.3	835.0	825.8	828.1
27.5°	5495.8	4554.4	2192.8	934.5	846.6	816.5	802.6	795.7	791.1	784.1	786.4
30°	5634.5	4526.6	1845.8	853.5	793.4	767.9	754.0	749.4	744.8	737.9	737.9
32.5°	5875.1	4538.2	1480.3	788.7	744.8	714.7	700.8	696.2	691.6	684.7	684.7
35°	6235.9	4605.2	1184.3	733.2	687.0	656.9	643.0	643.0	636.1	626.8	624.5
37.5°	6825.8	4776.4	950.7	680.0	631.5	603.7	587.5	582.9	575.9	562.1	559.8
40°	7522.0	5042.4	800.3	626.8	580.6	552.8	538.9	525.1	506.6	492.7	490.4
42.5°	8396.3	5315.3	693.9	573.6	532.0	506.6	490.4	467.2	439.5	421.0	418.7
45°	9307.6	5565.2	622.2	525.1	485.7	464.9	446.4	409.4	374.7	351.6	349.3
47.5°	9987.7	5611.4	564.4	478.8	446.4	425.6	400.2	353.9	307.6	286.8	279.9
50°	10309.2	5387.0	504.2	432.5	407.1	384.0	351.6	298.4	247.5	222.1	217.4
52.5°	10422.5	4998.5	455.7	390.9	367.8	340.0	300.7	240.6	194.3	168.9	166.5
55°	10376.3	4508.1	411.7	351.6	321.5	289.1	249.8	192.0	143.4	122.6	118.0
57.5°	10133.4	3883.6	367.8	312.3	275.3	242.9	198.9	143.4	97.1	78.6	76.3
60°	9478.8	3032.4	323.8	268.3	233.6	198.9	157.3	101.8	60.1	43.9	43.9
62.5°	8373.2	2250.6	282.2	224.4	196.6	159.6	111.0	64.8	32.4	23.1	20.8
65°	6996.9	1660.8	235.9	189.7	164.2	124.9	78.6	39.3	16.2	6.9	4.6
67.5°	4882.8	1024.7	196.6	155.0	134.2	90.2	48.6	16.2	6.9	0.0	0.0
70°	2218.2	488.0	150.3	118.0	101.8	64.8	25.4	9.3	4.6	0.0	0.0
72.5°	689.3	256.7	106.4	85.6	69.4	41.6	13.9	6.9	4.6	0.0	0.0
75°	319.2	164.2	67.1	46.3	39.3	20.8	9.3	4.6	2.3	0.0	0.0
77.5°	238.2	127.2	39.3	25.4	20.8	13.9	6.9	4.6	2.3	0.0	0.0
80°	208.2	64.8	23.1	16.2	11.6	9.3	4.6	2.3	0.0	0.0	0.0
82.5°	187.4	32.4	13.9	9.3	6.9	4.6	2.3	2.3	0.0	0.0	0.0
85°	101.8	18.5	9.3	6.9	4.6	2.3	2.3	0.0	0.0	0.0	0.0
87.5°	18.5	9.3	6.9	4.6	4.6	2.3	2.3	2.3	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	0.0

(END OF REPORT)