

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: P456955

Luminaire Tested: **GALN-SA8B-730-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456955  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
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-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34615 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G5

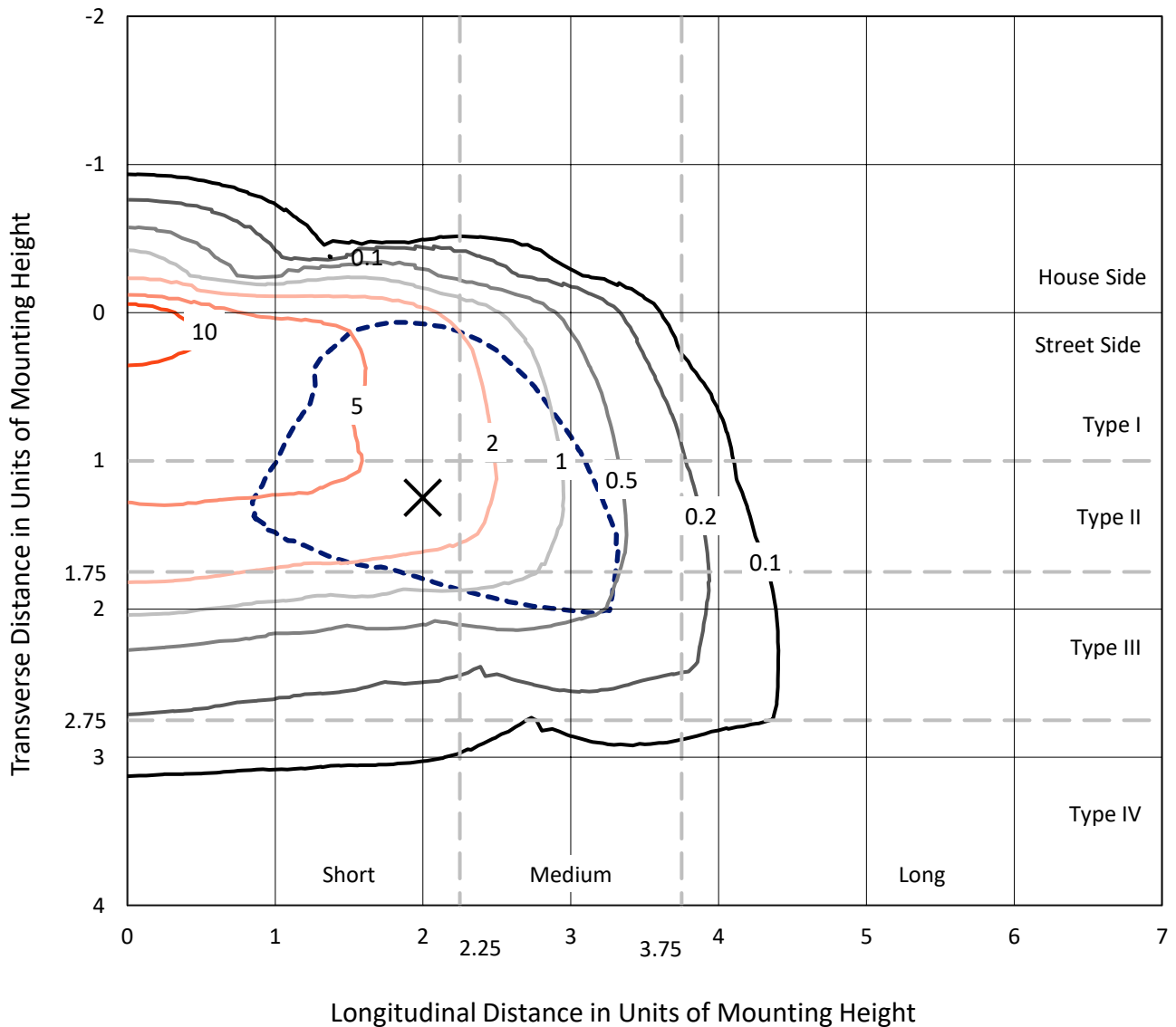
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P456955  
 CATALOG NUMBER: GALN-SA8B-730-U-SL3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

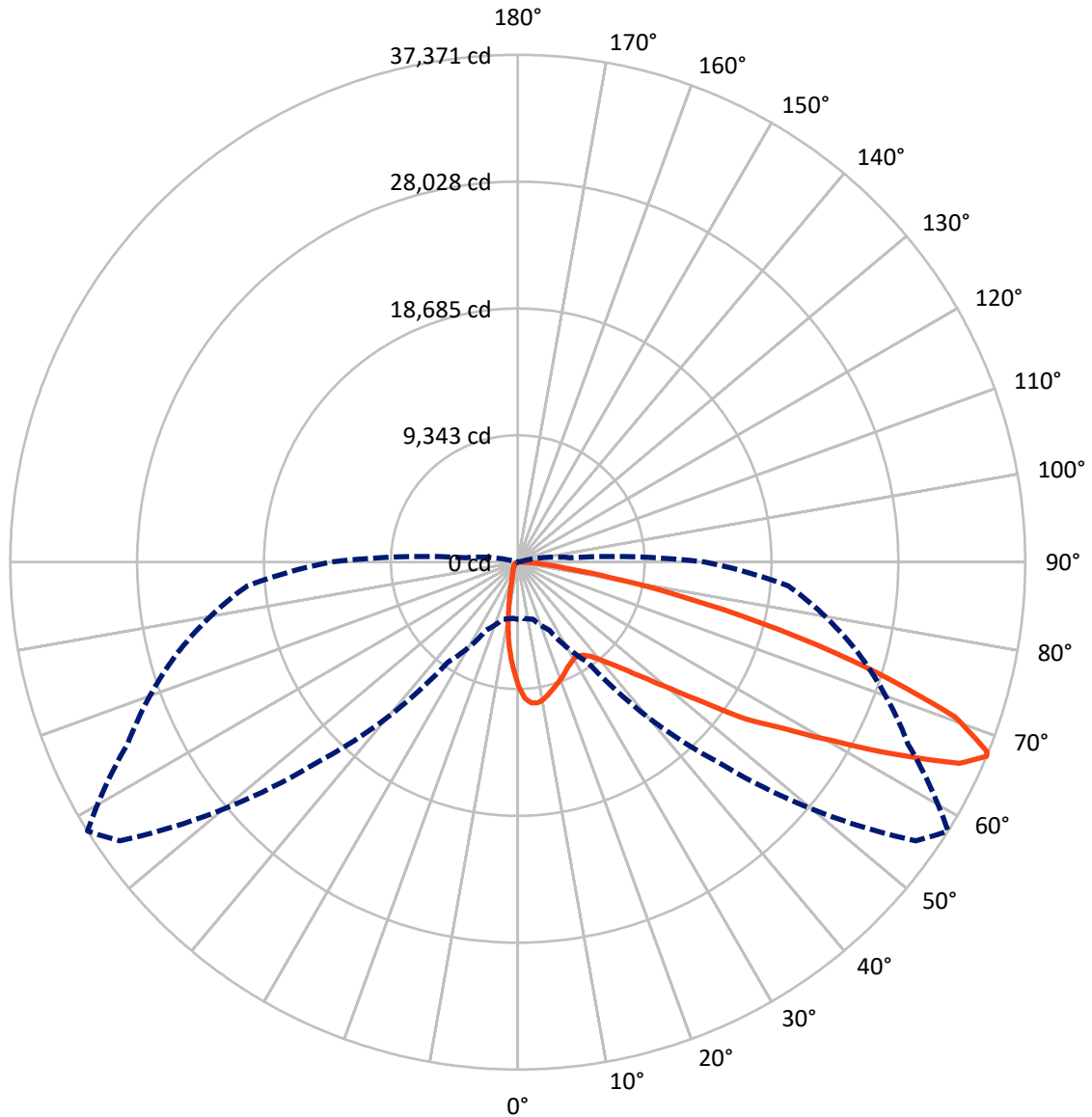
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc  
 Type III - Short - N/A

REPORT NUMBER: P456955  
CATALOG NUMBER: GALN-SA8B-730-U-SL3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P456955

CATALOG NUMBER: GALN-SA8B-730-U-SL3-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2498.0	0.0	2498.0
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	32117.0	0.0	32117.0
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	34615.0	0.0	34615.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	744.6	2.2
10°-20°	1608.2	4.6
20°-30°	2179.2	6.3
30°-40°	3022.5	8.7
40°-50°	4820.5	13.9
50°-60°	8332.6	24.1
60°-70°	9518.4	27.5
70°-80°	3968.3	11.5
80°-90°	420.8	1.2
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°	34615.0	100.0
0°-180°	34615.0	100.0

**Coefficient of Utilization**

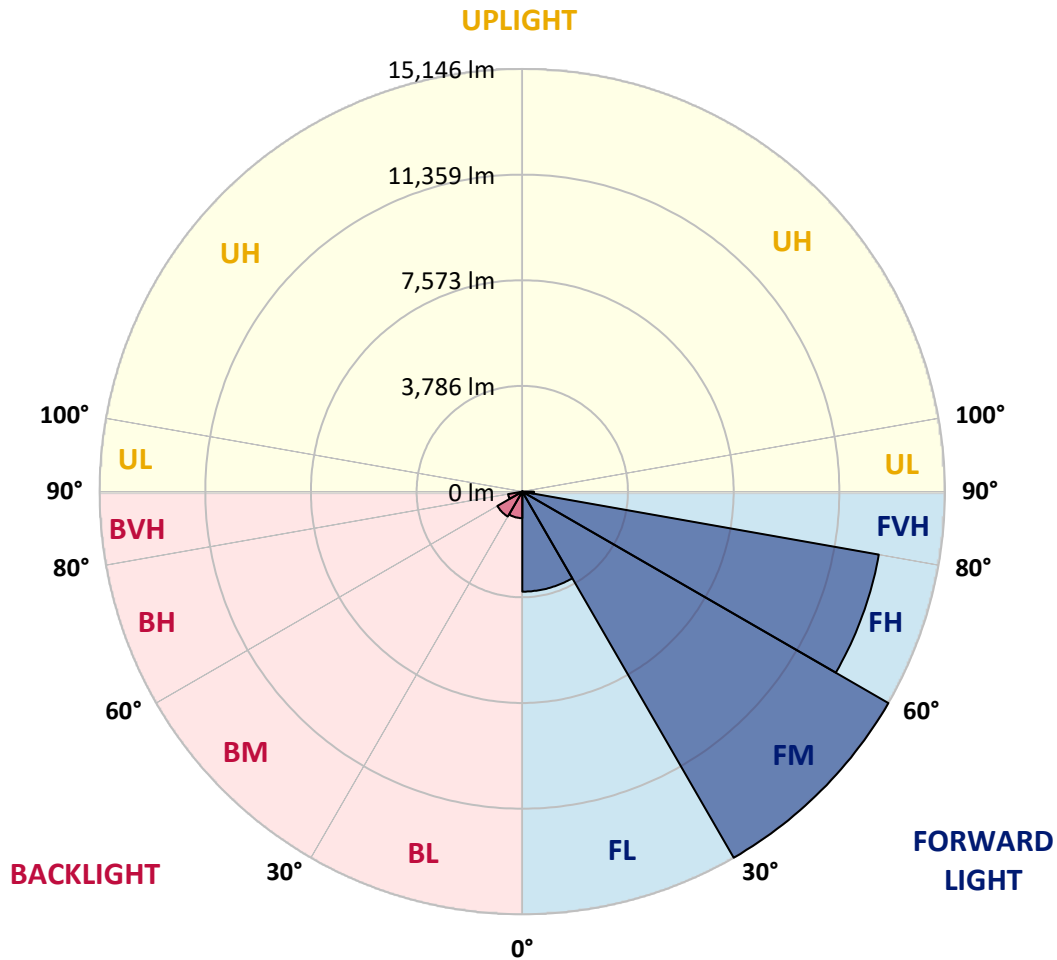


REPORT NUMBER: P456955  
 CATALOG NUMBER: GALN-SA8B-730-U-SL3-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3583.5	10.4			
FM	(30°-60°)	15145.5	43.8			
FH	(60°-80°)	12970.3	37.5			G5
FVH	(80°-90°)	417.7	1.2			G3/500
BL	(0°-30°)	948.6	2.7	B2/1000		
BM	(30°-60°)	1030.0	3.0	B2/2500		
BH	(60°-80°)	516.4	1.5	B2/1000		G2/1000
BVH	(80°-90°)	3.0	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 III Short





REPORT NUMBER: P456955

CATALOG NUMBER: GALN-SA8B-730-U-SL3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9176.1	9176.1	9176.1	9176.1	9176.1	9176.1	9176.1	9176.1	9176.1	9176.1	9176.1
2.5°	10649.6	10665.8	10605.6	10557.0	10432.1	10298.0	10119.9	10025.0	9863.1	9583.2	9273.3
5°	10899.4	10920.2	10911.0	10899.4	10850.8	10721.3	10494.6	10411.3	10173.1	9717.4	9157.6
7.5°	10344.2	10420.6	10429.8	10520.0	10605.6	10617.2	10531.6	10469.1	10249.4	9715.1	8951.7
10°	9608.7	9659.6	9733.6	9837.7	10043.5	10214.7	10298.0	10288.7	10161.5	9643.4	8711.2
12.5°	8866.2	8893.9	9007.3	9185.4	9437.5	9729.0	9951.0	9995.0	9997.3	9557.8	8509.9
15°	8227.7	8216.2	8304.1	8509.9	8863.8	9229.3	9627.2	9696.6	9807.6	9474.5	8322.6
17.5°	7681.8	7742.0	7755.9	7982.6	8308.7	8782.9	9289.5	9412.1	9634.1	9402.8	8167.6
20°	7344.1	7376.5	7406.6	7533.8	7827.6	8327.2	8972.6	9141.4	9472.2	9338.0	7994.1
22.5°	7244.7	7265.5	7240.0	7279.4	7487.5	7931.7	8627.9	8852.3	9317.2	9277.9	7853.0
25°	7321.0	7341.8	7281.7	7235.4	7307.1	7610.1	8294.8	8567.8	9192.3	9266.3	7746.6
27.5°	7506.1	7545.4	7462.1	7378.8	7337.2	7436.7	8033.4	8350.3	9106.7	9321.8	7698.0
30°	7795.2	7818.3	7755.9	7654.1	7559.3	7459.8	7897.0	8200.0	9083.6	9451.4	7693.4
32.5°	8109.8	8158.3	8123.7	8056.6	7934.0	7698.0	7936.3	8204.6	9139.1	9638.7	7751.2
35°	8498.4	8553.9	8586.3	8572.4	8415.1	8121.3	8186.1	8412.8	9287.1	9983.4	7908.5
37.5°	8880.0	8928.6	9111.4	9173.8	9035.0	8757.4	8671.9	8822.2	9613.3	10434.5	8193.0
40°	9317.2	9382.0	9638.7	9877.0	9809.9	9518.5	9361.2	9486.1	10112.9	11114.5	8732.0
42.5°	9735.9	9851.5	10242.5	10663.5	10725.9	10399.8	10295.7	10337.3	10853.1	12093.0	9483.8
45°	10330.4	10439.1	10943.3	11514.7	11808.4	11554.0	11447.6	11440.7	11868.6	13469.3	10702.8
47.5°	11188.5	11285.7	11880.1	12444.5	12967.3	13002.0	12800.8	12870.2	13145.4	15079.2	12197.0
50°	12241.0	12470.0	12860.9	13448.4	14147.0	14711.4	14773.9	14681.3	14917.3	16943.6	13992.0
52.5°	13770.0	13857.9	14216.4	14699.8	15518.7	16476.3	17218.8	17091.6	17017.6	18720.0	15805.5
55°	14910.3	15028.3	15585.8	16249.6	17450.1	18713.1	20323.0	20367.0	19432.5	20427.1	17579.7
57.5°	14565.7	14746.1	15590.4	16925.0	19564.3	21872.8	23071.0	23101.1	21666.9	22085.6	19582.8
60°	12796.1	12881.7	14091.5	15872.6	19744.7	25296.2	26968.6	26725.7	23940.7	23940.7	21352.3
62.5°	9074.3	9208.5	10189.3	12810.0	17831.8	26485.1	31636.4	31134.5	27072.7	25714.9	22407.1
65°	5799.0	5669.4	6319.4	8086.6	13284.2	24729.5	35700.6	35730.7	30019.6	26425.0	21831.2
67°	4200.6	4149.7	4337.1	5528.3	9007.3	20787.9	35786.2	37370.7	31712.8	25976.3	19989.9
67.5°	3842.1	3881.4	4017.9	4987.1	8183.8	18916.6	35397.6	37273.5	32094.4	25705.6	19323.7
70°	2912.2	2845.1	2993.2	3527.5	4906.1	11933.3	30449.8	34185.5	31620.3	23020.1	15440.0
72.5°	2141.9	2135.0	2340.9	2884.5	3777.3	6356.4	22858.2	27410.4	25832.8	17528.8	9722.0
75°	1445.7	1510.5	1838.9	2410.3	3423.4	4122.0	15583.4	19885.8	17933.6	9953.3	3973.9
77.5°	823.5	828.1	1184.3	1936.1	3074.1	3317.0	9233.9	12668.9	9493.0	3310.1	1179.7
80°	356.2	390.9	587.5	1406.4	2549.1	2937.7	5294.7	6962.5	3839.8	700.9	381.7
82.5°	131.8	155.0	259.1	865.1	1859.7	2419.5	3199.0	3323.9	1302.3	247.5	238.3
85°	0.0	4.6	94.8	404.8	969.2	1080.2	2137.3	1970.8	576.0	118.0	155.0
87.5°	0.0	0.0	0.0	41.6	127.2	402.5	663.9	740.2	138.8	41.6	37.0
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: P456955  
 CATALOG NUMBER: GALN-SA8B-730-U-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9176.1	9176.1	9176.1	9176.1	9176.1	9176.1	9176.1	9176.1	9176.1	9176.1	9176.1
2.5°	9106.7	8956.4	8579.3	8202.3	7922.4	7688.8	7337.2	7145.2	7043.4	6893.1	6902.3
5°	8877.7	8572.4	7908.5	7221.5	6666.4	6125.1	5477.5	5216.1	4996.3	4871.4	4788.1
7.5°	8537.7	8086.6	7103.6	6187.6	5334.0	4388.0	3677.8	3203.7	2884.5	2766.5	2653.1
10°	8165.3	7566.2	6287.0	5017.1	3832.8	2856.7	2255.3	1820.4	1665.4	1522.0	1535.9
12.5°	7820.6	7092.0	5537.6	3960.0	2685.5	1815.8	1415.6	1237.5	1186.6	1170.4	1170.4
15°	7538.4	6638.6	4732.6	2977.0	1841.2	1304.6	1133.4	1084.8	1066.3	1061.7	1061.7
17.5°	7237.7	6208.4	4006.3	2199.8	1339.3	1091.8	1034.0	1001.6	994.6	990.0	990.0
20°	6969.4	5775.8	3317.0	1637.7	1082.5	983.1	946.1	925.2	918.3	913.7	916.0
22.5°	6715.0	5391.9	2669.3	1237.5	953.0	895.2	858.2	837.3	823.5	811.9	814.2
25°	6488.3	5021.8	2146.6	1013.1	858.2	807.3	770.3	740.2	710.1	696.2	693.9
27.5°	6328.7	4697.9	1672.4	867.4	772.6	717.1	670.8	633.8	594.5	573.7	569.0
30°	6196.8	4369.5	1323.1	765.6	687.0	633.8	576.0	522.8	481.1	460.3	451.1
32.5°	6111.2	4057.2	1043.2	682.4	615.3	550.5	485.8	432.6	386.3	365.5	360.8
35°	6097.4	3795.8	853.5	613.0	550.5	481.1	414.0	356.2	316.9	296.1	291.5
37.5°	6196.8	3594.6	714.8	557.5	497.3	421.0	347.0	293.8	259.1	242.9	240.6
40°	6462.8	3467.4	619.9	511.2	448.7	365.5	296.1	249.8	215.1	198.9	198.9
42.5°	6969.4	3472.0	557.5	467.2	400.2	312.3	252.1	208.2	178.1	164.2	159.6
45°	7760.5	3629.3	504.3	423.3	353.9	270.6	215.1	171.2	141.1	129.5	129.5
47.5°	8819.9	3941.5	458.0	379.4	312.3	231.3	182.7	138.8	113.3	101.8	101.8
50°	10205.5	4443.5	418.7	342.3	277.6	198.9	148.0	113.3	87.9	78.6	76.3
52.5°	11653.5	5063.4	372.4	310.0	238.3	168.9	120.3	87.9	67.1	60.1	57.8
55°	13251.8	5669.4	328.5	277.6	194.3	141.1	94.8	69.4	48.6	41.6	41.6
57.5°	14864.1	6263.9	275.3	231.3	152.7	104.1	74.0	50.9	32.4	25.4	25.4
60°	16228.8	6455.9	233.6	187.4	115.7	74.0	53.2	32.4	18.5	11.6	11.6
62.5°	16416.2	5808.2	196.6	143.4	83.3	50.9	27.8	18.5	6.9	4.6	4.6
65°	15398.4	4718.8	164.2	108.7	55.5	25.4	11.6	6.9	2.3	0.0	0.0
67°	13797.7	3825.9	134.2	81.0	39.3	16.2	6.9	2.3	0.0	0.0	0.0
67.5°	13388.3	3647.8	129.5	76.3	34.7	13.9	4.6	2.3	0.0	0.0	0.0
70°	10506.2	2731.8	92.5	46.3	20.8	9.3	0.0	0.0	0.0	0.0	0.0
72.5°	6529.9	1545.2	67.1	27.8	13.9	4.6	0.0	0.0	0.0	0.0	0.0
75°	2468.1	541.3	46.3	18.5	9.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	768.0	205.9	27.8	13.9	4.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	259.1	78.6	18.5	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	159.6	32.4	11.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	99.5	13.9	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.5	4.6	2.3	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	0.0

(END OF REPORT)