

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: P454180

Luminaire Tested: **GALN-SA5B-730-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454180  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5B-730-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19400 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

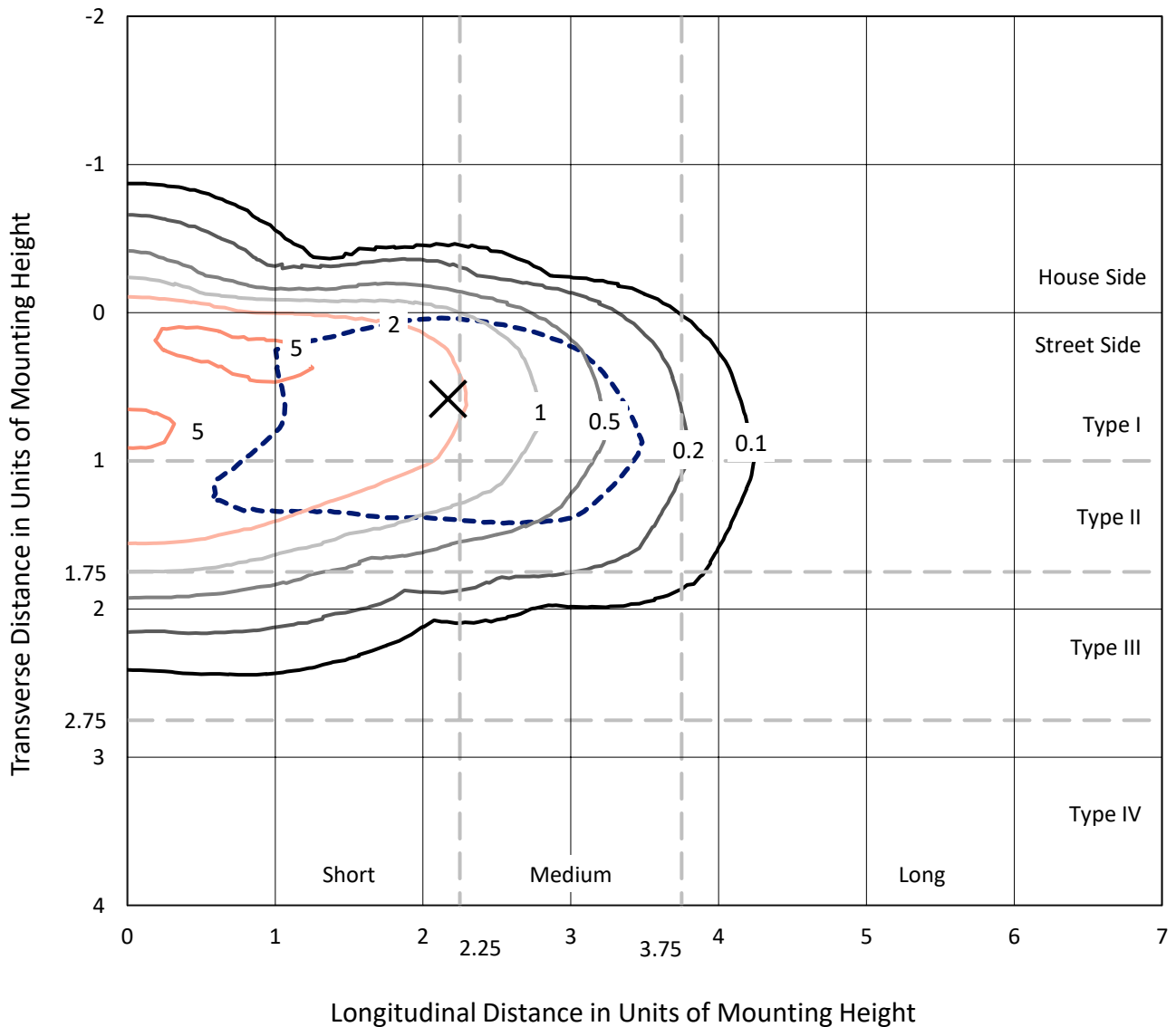
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P454180  
 CATALOG NUMBER: GALN-SA5B-730-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

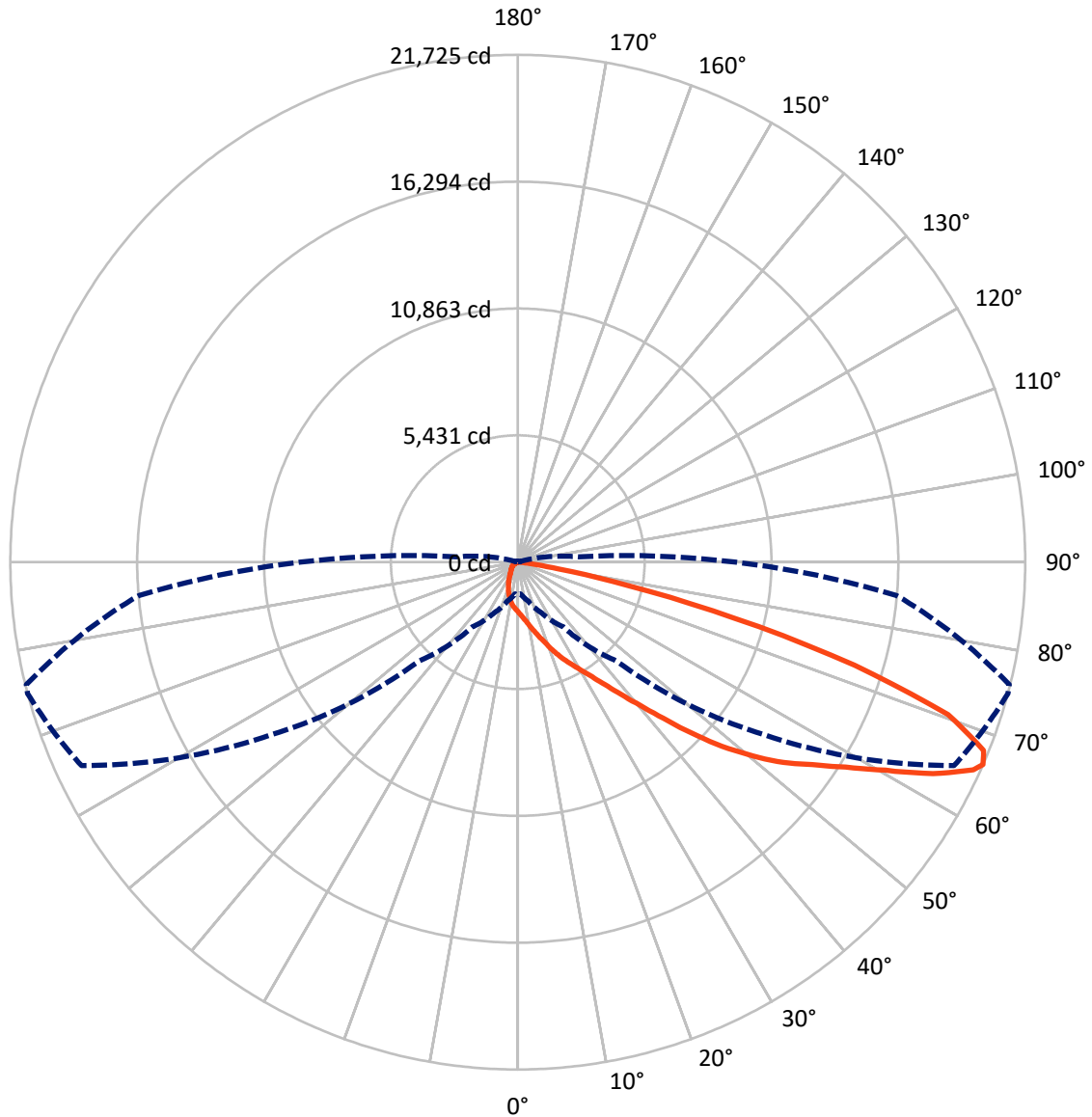
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P454180  
CATALOG NUMBER: GALN-SA5B-730-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P454180

CATALOG NUMBER: GALN-SA5B-730-U-T2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1197.7	0.0	1197.7
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	18202.3	0.0	18202.3
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	19400.0	0.0	19400.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.6	1.1
10°-20°	602.2	3.1
20°-30°	1039.9	5.4
30°-40°	1875.8	9.7
40°-50°	3388.7	17.5
50°-60°	5283.0	27.2
60°-70°	5018.7	25.9
70°-80°	1880.9	9.7
80°-90°	106.1	0.5
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°	19400.0	100.0
0°-180°	19400.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P454180

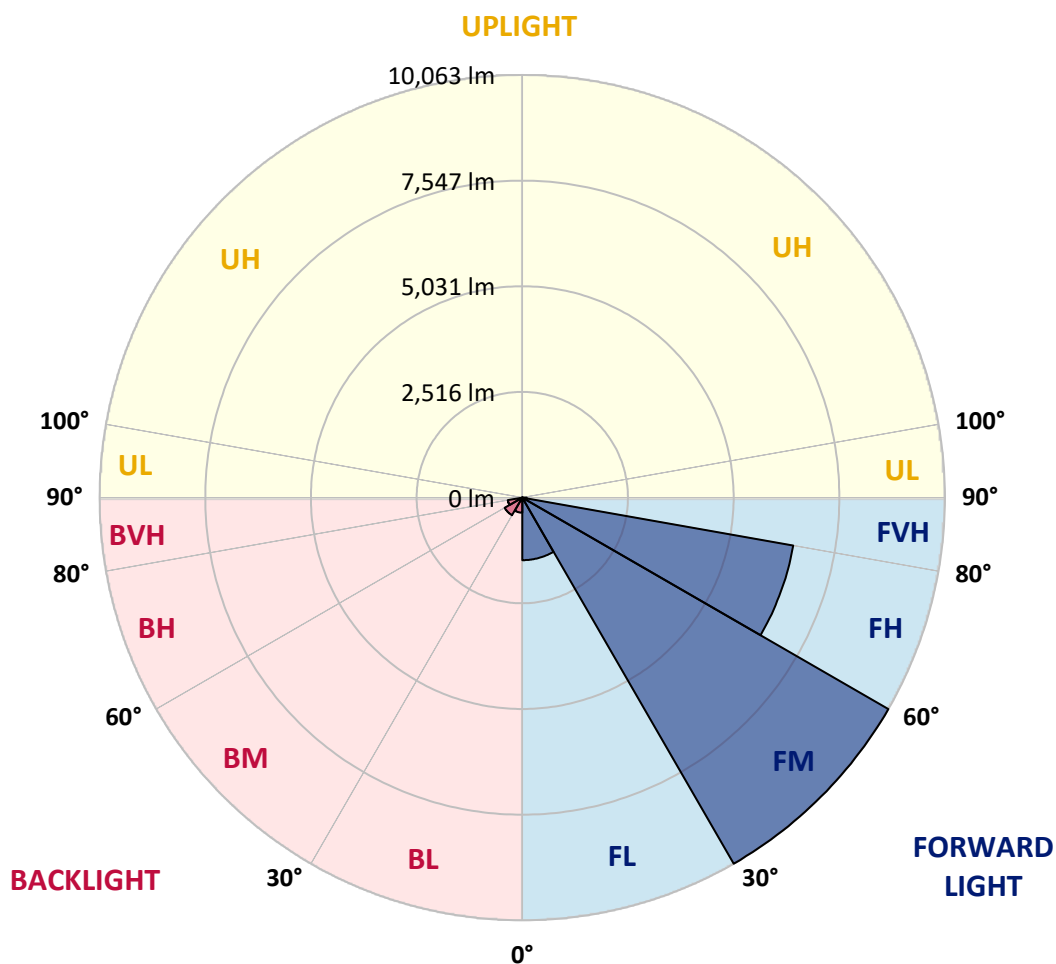
CATALOG NUMBER: GALN-SA5B-730-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1489.1	7.7			
FM (30°-60°)	10062.8	51.9			
FH (60°-80°)	6549.8	33.8			G3/7500
FVH (80°-90°)	100.6	0.5			G2/225
BL (0°-30°)	357.7	1.8	B1/500		
BM (30°-60°)	484.8	2.5	B1/1000		
BH (60°-80°)	349.7	1.8	B1/500		G1/500
BVH (80°-90°)	5.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type II Short





REPORT NUMBER: P454180

CATALOG NUMBER: GALN-SA5B-730-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2121.6	2121.6	2121.6	2121.6	2121.6	2121.6	2121.6	2121.6	2121.6	2121.6	2121.6
2.5°	2534.7	2503.2	2513.2	2498.8	2465.9	2417.1	2374.0	2312.4	2250.7	2240.6	2171.8
5°	2868.9	2860.3	2848.9	2807.3	2784.3	2709.7	2620.8	2514.6	2387.0	2364.0	2239.2
7.5°	3097.0	3092.7	3098.5	3076.9	3056.9	2989.4	2894.8	2749.9	2551.9	2539.0	2331.0
10°	3171.6	3183.1	3204.6	3239.0	3270.6	3249.1	3177.4	2996.6	2765.7	2728.4	2435.7
12.5°	3128.6	3141.5	3193.1	3284.9	3386.8	3445.6	3416.9	3284.9	2992.3	2962.2	2553.4
15°	3018.1	3033.9	3107.1	3249.1	3431.3	3597.7	3669.4	3574.7	3256.2	3207.5	2695.4
17.5°	2854.6	2877.5	2982.3	3170.2	3419.8	3706.7	3908.9	3877.4	3537.4	3491.5	2850.3
20°	2731.2	2748.4	2837.4	3052.6	3371.0	3766.9	4137.0	4225.9	3884.5	3805.7	3032.5
22.5°	2813.0	2818.7	2848.9	2978.0	3283.5	3782.7	4337.8	4588.9	4253.2	4182.9	3221.8
25°	3213.2	3155.8	3125.7	3097.0	3264.9	3768.4	4520.0	4967.6	4620.4	4545.8	3409.7
27.5°	3844.4	3818.6	3666.5	3462.8	3424.1	3787.0	4640.5	5326.2	4966.1	4885.8	3593.3
30°	4531.5	4487.0	4393.8	4095.4	3795.6	3919.0	4728.0	5674.8	5375.0	5268.8	3761.2
32.5°	5162.7	5191.3	5052.2	4745.2	4398.1	4200.1	4841.3	6054.9	5844.0	5712.1	3956.3
35°	5898.5	5955.9	5742.2	5448.1	5042.2	4707.9	5062.2	6483.8	6439.3	6272.9	4257.5
37.5°	6645.9	6680.3	6549.8	6136.7	5770.9	5353.4	5478.2	7013.1	7172.4	7030.3	4617.6
40°	7274.2	7321.5	7225.4	6858.2	6468.0	6100.8	6082.2	7589.8	8044.5	7898.2	5154.1
42.5°	7754.7	7790.6	7793.5	7533.8	7182.4	7016.0	6852.5	8325.7	9137.6	8968.3	5776.6
45°	8361.5	8413.2	8383.0	8206.6	7944.1	7914.0	7829.3	9215.0	10445.8	10232.1	6584.2
47.5°	9299.7	9334.1	9259.5	9051.5	8784.7	8832.0	8781.8	10212.0	11779.9	11596.3	7420.5
50°	9950.9	10008.3	10114.5	10197.7	10004.0	9829.0	9679.8	11143.0	13046.5	12881.5	8275.5
52.5°	9943.7	10038.4	10374.1	10793.0	11216.1	11163.0	10734.1	12171.5	14255.8	14052.1	9078.8
55°	9273.9	9457.5	9950.9	10694.0	11865.9	12449.8	12254.7	13362.1	15300.1	15162.4	10009.7
57.5°	7891.0	8002.9	8688.6	9727.1	11503.0	13055.1	14016.2	14975.9	16552.4	16487.8	11455.7
60°	5307.5	5357.7	6239.9	7523.8	9793.1	12451.2	15307.2	16928.2	18094.4	18062.9	13144.1
62.5°	3041.1	3062.6	3702.4	4785.4	6968.7	10552.0	15416.3	19336.7	19943.4	19960.7	15097.8
65°	1636.7	1648.2	2164.6	2808.7	4240.3	7520.9	13862.7	20656.4	21438.2	21471.2	16308.5
66°	1413.0	1358.4	1722.8	2394.1	3373.9	5986.0	12880.1	20609.0	21725.1	21689.2	16265.5
67.5°	1074.4	1123.2	1375.7	1840.4	2500.3	4256.1	10633.7	19692.4	21507.0	21395.1	15604.2
70°	768.9	789.0	979.7	1312.5	1702.7	2335.3	6795.1	16355.8	19547.5	19396.9	13594.5
72.5°	496.3	517.8	694.3	949.6	1230.8	1275.2	3804.2	11817.2	15070.5	15049.0	10237.8
75°	354.3	374.4	459.0	679.9	925.2	789.0	1831.8	7964.2	9580.8	9516.3	6333.2
77.5°	256.8	266.8	307.0	444.7	661.3	565.2	849.2	4253.2	4769.6	4994.8	2798.7
80°	147.8	156.4	213.7	271.1	447.6	385.9	406.0	1707.0	1760.1	1675.5	875.0
82.5°	73.2	83.2	127.7	185.0	279.7	259.6	186.5	513.5	542.2	527.9	220.9
85°	17.2	21.5	71.7	121.9	136.3	116.2	90.4	150.6	186.5	182.2	84.6
87.5°	1.4	2.9	25.8	21.5	23.0	38.7	31.6	38.7	60.2	55.9	30.1
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: P454180  
 CATALOG NUMBER: GALN-SA5B-730-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2121.6	2121.6	2121.6	2121.6	2121.6	2121.6	2121.6	2121.6	2121.6	2121.6	2121.6
2.5°	2140.2	2113.0	2034.1	1956.6	1892.1	1824.6	1763.0	1727.1	1712.8	1697.0	1704.2
5°	2170.4	2104.4	1945.1	1807.4	1672.6	1557.8	1466.0	1407.2	1378.5	1374.2	1367.1
7.5°	2210.5	2097.2	1850.5	1635.3	1458.9	1331.2	1226.5	1141.8	1116.0	1093.1	1074.4
10°	2259.3	2084.3	1732.8	1454.6	1266.6	1106.0	968.3	867.9	816.2	801.9	811.9
12.5°	2310.9	2059.9	1609.5	1288.2	1071.5	866.4	738.8	688.5	674.2	668.5	669.9
15°	2362.6	2029.8	1480.4	1127.5	853.5	691.4	632.6	619.7	614.0	611.1	608.2
17.5°	2409.9	1981.0	1335.5	971.1	691.4	591.0	569.5	558.0	546.5	542.2	535.1
20°	2465.9	1925.1	1205.0	796.1	585.3	535.1	509.2	487.7	470.5	459.0	457.6
22.5°	2518.9	1853.3	1068.7	659.9	533.6	480.5	438.9	416.0	395.9	381.6	385.9
25°	2547.6	1765.8	946.8	575.2	486.3	426.0	380.1	351.4	329.9	322.8	321.3
27.5°	2547.6	1658.2	827.7	526.5	443.3	377.3	329.9	302.7	288.3	278.3	279.7
30°	2527.5	1539.2	717.2	489.2	406.0	334.2	289.8	265.4	253.9	246.7	245.3
32.5°	2511.8	1425.9	622.6	453.3	367.2	296.9	258.2	239.6	228.1	220.9	220.9
35°	2536.1	1328.3	549.4	417.4	331.4	268.2	233.8	216.6	205.1	199.4	198.0
37.5°	2600.7	1239.4	493.5	378.7	298.4	243.9	216.6	196.5	185.0	177.9	175.0
40°	2759.9	1189.2	451.9	342.8	266.8	223.8	196.5	177.9	163.5	156.4	154.9
42.5°	3015.3	1190.6	411.7	309.8	242.4	206.6	179.3	157.8	142.0	134.8	133.4
45°	3399.7	1245.1	380.1	278.3	220.9	187.9	160.7	137.7	123.4	116.2	116.2
47.5°	3860.2	1351.3	352.9	251.0	200.8	170.7	142.0	119.1	104.7	99.0	99.0
50°	4359.4	1489.0	325.6	222.3	183.6	152.1	121.9	103.3	91.8	87.5	87.5
52.5°	4868.6	1655.4	298.4	199.4	165.0	132.0	104.7	91.8	81.8	78.9	77.5
55°	5537.1	1867.7	269.7	175.0	144.9	113.3	93.2	80.3	68.9	64.6	63.1
57.5°	6565.6	2187.6	238.1	153.5	119.1	94.7	80.3	67.4	54.5	47.3	45.9
60°	7806.4	2577.7	205.1	134.8	96.1	77.5	64.6	51.6	40.2	31.6	30.1
62.5°	8968.3	2825.9	173.6	113.3	76.0	58.8	45.9	38.7	28.7	20.1	18.6
65°	9481.8	2742.7	143.4	91.8	60.2	41.6	30.1	27.3	17.2	8.6	7.2
66°	9311.1	2619.3	132.0	83.2	54.5	35.9	25.8	23.0	12.9	4.3	4.3
67.5°	8807.6	2328.1	114.8	71.7	47.3	28.7	20.1	17.2	7.2	1.4	0.0
70°	7546.7	1883.5	90.4	53.1	34.4	20.1	11.5	8.6	4.3	0.0	0.0
72.5°	5796.7	1402.9	71.7	40.2	24.4	11.5	5.7	2.9	4.3	0.0	0.0
75°	3551.7	801.9	55.9	30.1	15.8	7.2	4.3	0.0	4.3	1.4	0.0
77.5°	1576.5	360.1	37.3	20.1	11.5	5.7	2.9	0.0	2.9	1.4	0.0
80°	398.8	117.6	21.5	14.3	8.6	4.3	1.4	0.0	2.9	2.9	1.4
82.5°	109.0	43.0	15.8	11.5	7.2	4.3	1.4	0.0	2.9	2.9	2.9
85°	43.0	20.1	14.3	11.5	8.6	4.3	1.4	0.0	2.9	2.9	2.9
87.5°	20.1	14.3	14.3	12.9	10.0	4.3	1.4	0.0	2.9	1.4	2.9
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)