

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: P454173

Luminaire Tested: **GALN-SA5B-730-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454173  
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-SA5B-730-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 21347 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G4

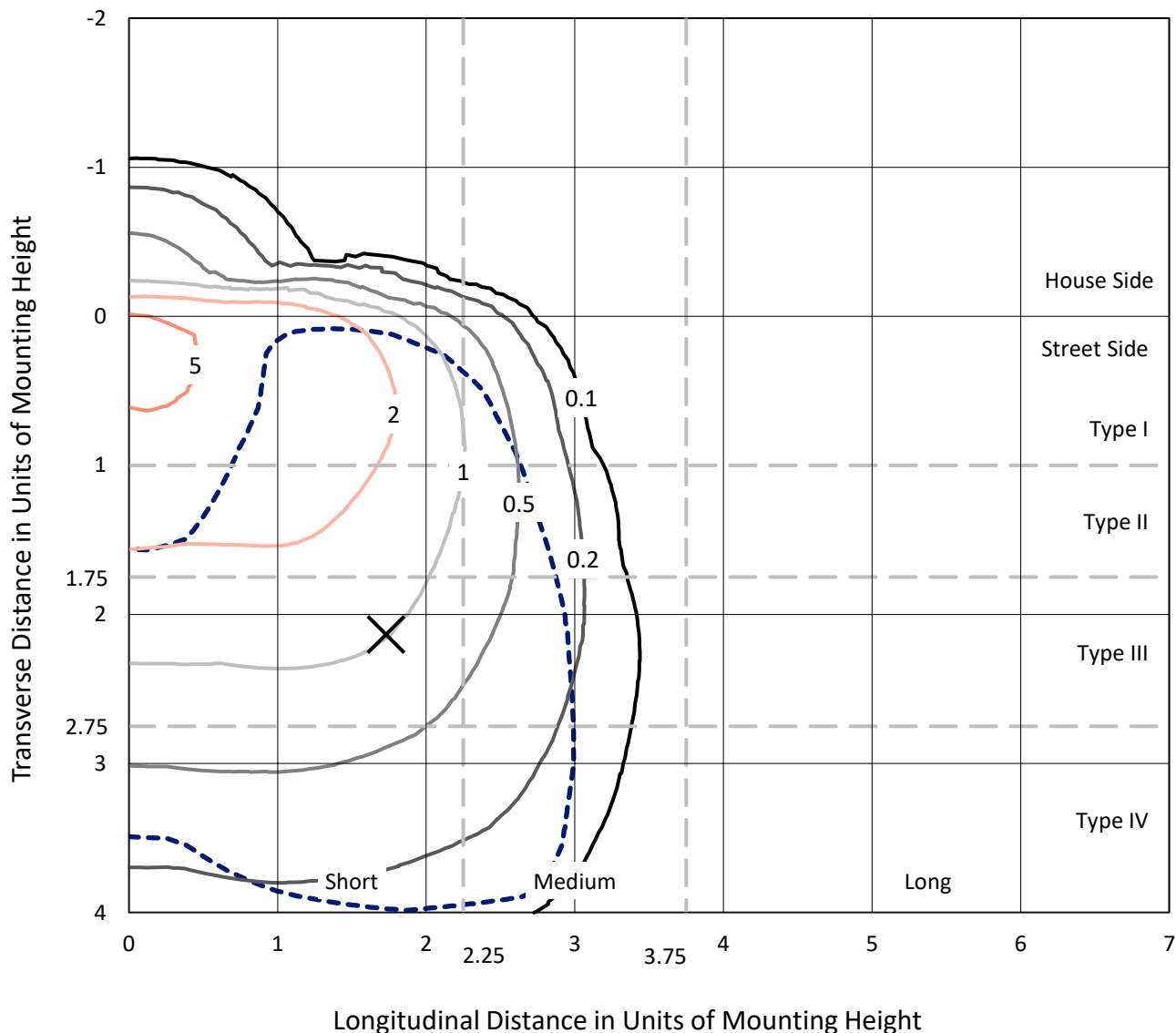
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

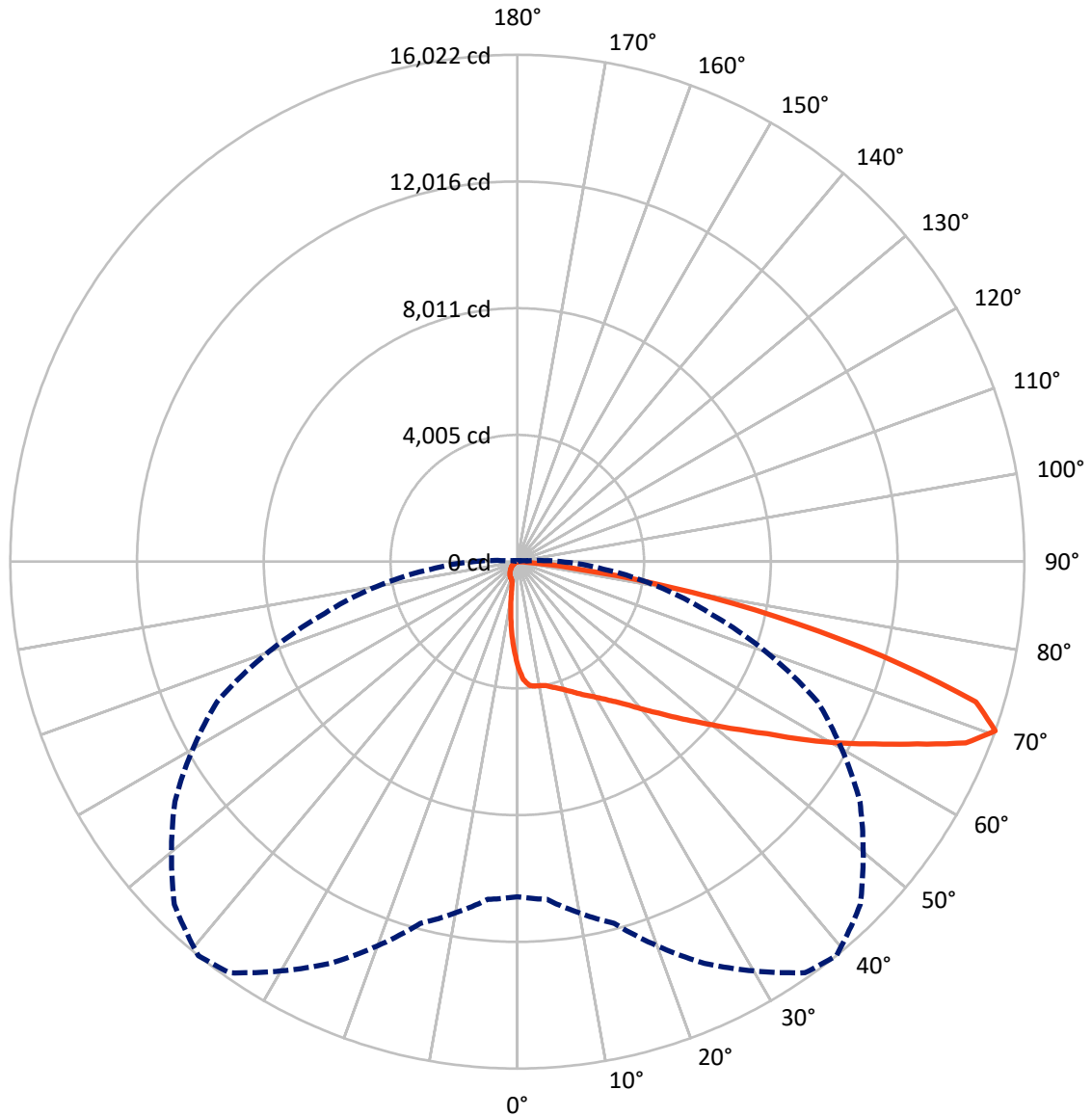
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1391.9	0.0	1391.9
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	19955.1	0.0	19955.1
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	21347.0	0.0	21347.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.1	1.3
10°-20°	738.3	3.5
20°-30°	1236.8	5.8
30°-40°	1918.2	9.0
40°-50°	3039.8	14.2
50°-60°	4455.8	20.9
60°-70°	5711.3	26.8
70°-80°	3588.8	16.8
80°-90°	373.9	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°	21347.0	100.0
0°-180°	21347.0	100.0

**Coefficient of Utilization**



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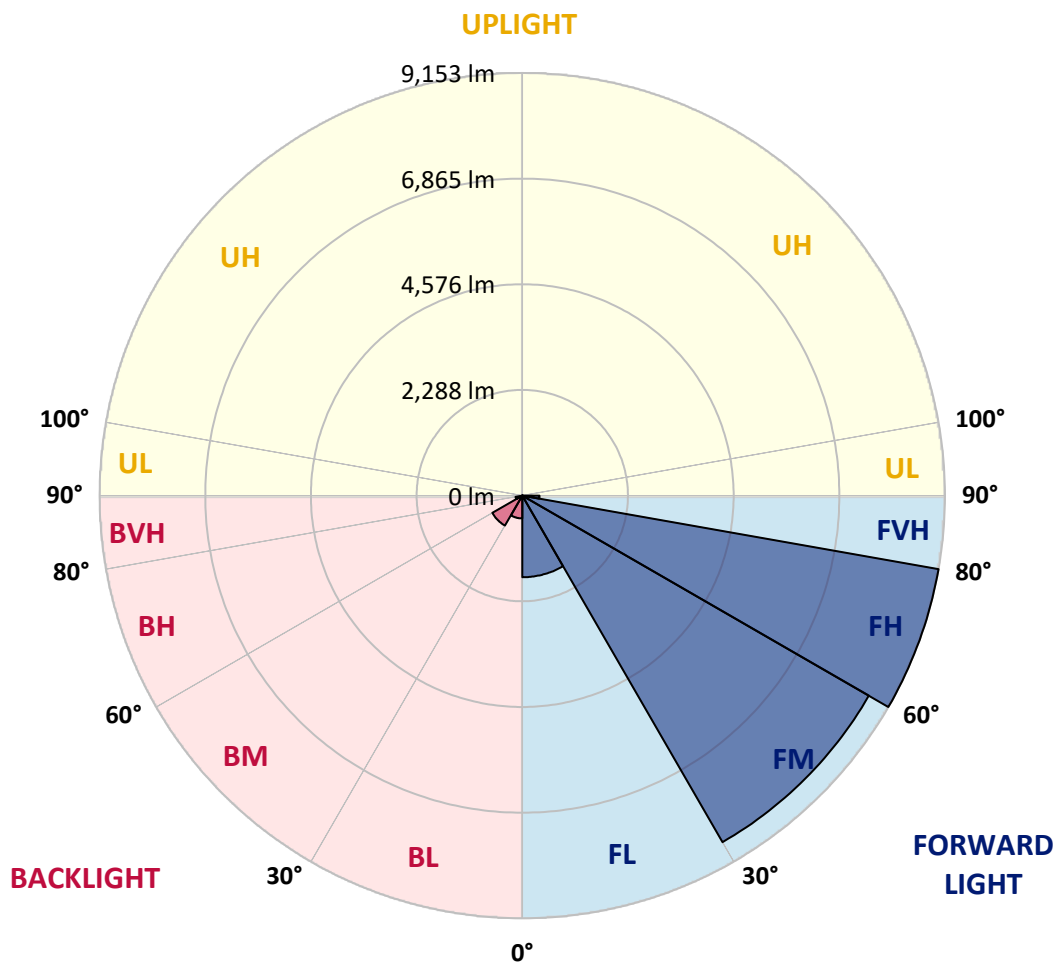
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1766.4	8.3			
FM (30°-60°)	8664.7	40.6			
FH (60°-80°)	9152.9	42.9			G4/12000
FVH (80°-90°)	371.1	1.7			G3/500
BL (0°-30°)	492.9	2.3	B1/500		
BM (30°-60°)	749.1	3.5	B1/1000		
BH (60°-80°)	147.2	0.7	B1/500		G1/500
BVH (80°-90°)	2.7	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3330.9	3330.9	3330.9	3330.9	3330.9	3330.9	3330.9	3330.9	3330.9	3330.9	3330.9
2.5°	3848.7	3835.8	3818.6	3798.5	3741.1	3731.1	3696.7	3623.5	3536.0	3464.3	3365.3
5°	4030.9	4038.1	4025.2	3989.3	3947.7	3923.3	3880.3	3766.9	3653.6	3508.7	3346.6
7.5°	4072.5	4086.8	4071.1	4036.6	3996.5	3970.6	3936.2	3838.7	3706.7	3541.7	3319.4
10°	4068.2	4085.4	4075.4	4043.8	4010.8	3986.4	3949.1	3871.7	3765.5	3591.9	3328.0
12.5°	4061.0	4084.0	4082.5	4066.8	4039.5	4020.8	3997.9	3929.0	3830.1	3665.1	3375.3
15°	4040.9	4069.6	4095.4	4108.4	4109.8	4109.8	4081.1	4007.9	3913.3	3761.2	3437.0
17.5°	4049.5	4082.5	4147.1	4184.4	4210.2	4207.3	4177.2	4098.3	3993.6	3860.2	3501.6
20°	4102.6	4147.1	4237.5	4312.0	4337.9	4329.3	4289.1	4197.3	4078.2	3944.8	3564.7
22.5°	4233.2	4273.3	4386.6	4474.1	4492.8	4469.8	4412.5	4287.7	4180.1	4036.6	3640.7
25°	4428.2	4475.6	4580.3	4646.3	4646.3	4633.4	4553.0	4406.7	4294.8	4164.3	3739.7
27.5°	4664.9	4705.1	4808.4	4867.2	4832.8	4795.5	4715.1	4538.7	4431.1	4325.0	3858.8
30°	4904.5	4930.3	5039.3	5065.2	5029.3	4982.0	4895.9	4719.4	4624.8	4543.0	4030.9
32.5°	5131.1	5187.1	5277.5	5271.7	5222.9	5200.0	5121.1	4933.2	4880.1	4871.5	4271.9
35°	5357.8	5400.8	5481.2	5501.2	5458.2	5453.9	5396.5	5257.4	5258.8	5314.8	4647.7
37.5°	5552.9	5591.6	5686.3	5730.8	5739.4	5760.9	5737.9	5646.1	5776.7	5930.1	5145.5
40°	5716.4	5770.9	5891.4	5968.9	6057.8	6136.7	6141.0	6161.1	6423.6	6687.5	5795.3
42.5°	5844.1	5920.1	6095.1	6238.6	6442.3	6542.7	6623.0	6733.5	7175.3	7569.8	6561.3
45°	6010.5	6098.0	6316.0	6541.2	6859.7	7024.7	7136.5	7432.0	8058.9	8596.8	7347.4
47.5°	6285.9	6331.8	6554.1	6882.6	7301.5	7536.8	7754.8	8202.4	9007.1	9489.1	8001.5
50°	6640.2	6670.3	6838.2	7294.3	7836.6	8146.4	8543.8	9070.2	9991.2	10229.3	8371.6
52.5°	7031.8	7041.9	7168.1	7747.6	8436.2	8826.4	9271.0	9920.9	10793.0	10757.2	8616.9
55°	7486.6	7472.2	7579.8	8239.7	9146.2	9592.4	10110.2	10791.6	11488.8	11131.6	8757.5
57.5°	8007.3	7968.5	8073.3	8892.3	10055.7	10589.3	11115.8	11543.3	12028.1	11445.7	8824.9
60°	8552.4	8474.9	8599.7	9625.4	11127.3	11633.6	12071.2	12185.9	12596.2	11695.3	8708.7
62.5°	8987.0	8988.5	9220.8	10405.7	12228.9	12672.2	12904.6	13007.9	13085.3	11640.8	8097.6
65°	9665.5	9688.5	10060.0	11488.8	13504.2	13888.6	14047.9	13712.2	13106.9	10963.7	7179.6
67.5°	10365.6	10438.7	11118.7	12980.6	14977.4	15287.3	15082.1	13848.5	12521.6	9418.8	5443.9
70°	10593.6	10714.1	11834.5	14007.7	15861.1	16021.7	15327.4	13213.0	10467.4	6297.4	2739.9
72.5°	9707.1	9902.2	11422.8	13633.3	15297.3	15158.2	13713.6	11081.4	6654.6	2391.3	836.3
75°	6845.3	6931.4	9493.4	11309.4	12303.5	11909.1	10431.5	7143.7	2737.0	671.3	286.9
77.5°	3534.6	3493.0	5646.1	7503.8	8774.7	8365.9	6831.0	3698.1	1037.1	279.7	177.9
80°	1827.5	1857.7	2442.9	3931.9	5356.4	4928.9	3642.1	1714.2	552.3	154.9	136.3
82.5°	1024.2	961.1	1404.4	1717.1	2504.6	1963.8	1397.2	1213.6	241.0	93.2	129.1
85°	186.5	195.1	770.3	928.1	869.3	552.3	450.4	810.5	70.3	51.6	90.4
87.5°	2.9	2.9	149.2	266.8	169.3	77.5	142.0	116.2	14.3	20.1	15.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3330.9	3330.9	3330.9	3330.9	3330.9	3330.9	3330.9	3330.9	3330.9	3330.9	3330.9
2.5°	3315.1	3260.6	3158.7	3058.3	2930.6	2825.9	2755.6	2682.5	2607.9	2613.6	2630.8
5°	3257.7	3163.0	2962.2	2749.9	2546.2	2362.6	2181.8	2019.7	1953.8	1893.5	1896.4
7.5°	3200.3	3066.9	2772.9	2440.1	2131.6	1818.9	1592.3	1405.8	1306.8	1232.2	1210.7
10°	3174.5	2998.1	2599.3	2141.7	1704.2	1362.8	1071.6	919.5	801.9	764.6	774.6
12.5°	3186.0	2963.6	2442.9	1872.0	1351.3	949.6	745.9	668.5	642.6	638.3	635.5
15°	3207.5	2939.3	2289.4	1573.6	992.7	705.8	626.9	612.5	609.7	606.8	608.2
17.5°	3236.2	2917.7	2125.9	1293.9	761.7	616.8	593.9	586.7	585.3	585.3	585.3
20°	3264.9	2893.3	1943.7	1044.3	635.5	582.4	568.1	563.8	562.3	562.3	560.9
22.5°	3297.9	2871.8	1758.7	820.5	585.3	558.0	545.1	542.2	540.8	539.4	539.4
25°	3345.2	2844.6	1562.1	671.3	553.7	535.1	522.2	519.3	517.8	512.1	513.5
27.5°	3408.3	2824.5	1359.9	579.5	525.0	506.4	497.8	493.5	490.6	486.3	487.7
30°	3494.4	2807.3	1144.7	529.3	492.0	476.2	467.6	464.8	461.9	457.6	457.6
32.5°	3643.6	2814.5	918.1	489.2	461.9	443.3	434.6	431.8	428.9	424.6	424.6
35°	3867.4	2856.1	734.5	454.7	426.0	407.4	398.8	398.8	394.5	388.7	387.3
37.5°	4233.2	2962.2	589.6	421.7	391.6	374.4	364.4	361.5	357.2	348.6	347.1
40°	4664.9	3127.2	496.3	388.7	360.1	342.8	334.2	325.6	314.2	305.5	304.1
42.5°	5207.2	3296.4	430.3	355.8	329.9	314.2	304.1	289.8	272.6	261.1	259.6
45°	5772.4	3451.4	385.9	325.6	301.2	288.3	276.9	253.9	232.4	218.0	216.6
47.5°	6194.1	3480.1	350.0	296.9	276.9	263.9	248.2	219.5	190.8	177.9	173.6
50°	6393.5	3340.9	312.7	268.2	252.5	238.1	218.0	185.0	153.5	137.7	134.8
52.5°	6463.8	3099.9	282.6	242.4	228.1	210.9	186.5	149.2	120.5	104.7	103.3
55°	6435.1	2795.8	255.3	218.0	199.4	179.3	154.9	119.1	88.9	76.0	73.2
57.5°	6284.5	2408.5	228.1	193.7	170.7	150.6	123.4	88.9	60.2	48.8	47.3
60°	5878.5	1880.6	200.8	166.4	144.9	123.4	97.5	63.1	37.3	27.3	27.3
62.5°	5192.8	1395.7	175.0	139.1	121.9	99.0	68.9	40.2	20.1	14.3	12.9
65°	4339.3	1030.0	146.3	117.6	101.8	77.5	48.8	24.4	10.0	4.3	2.9
67.5°	3028.2	635.5	121.9	96.1	83.2	55.9	30.1	10.0	4.3	0.0	0.0
70°	1375.7	302.7	93.2	73.2	63.1	40.2	15.8	5.7	2.9	0.0	0.0
72.5°	427.5	159.2	66.0	53.1	43.0	25.8	8.6	4.3	2.9	0.0	0.0
75°	198.0	101.8	41.6	28.7	24.4	12.9	5.7	2.9	1.4	0.0	0.0
77.5°	147.8	78.9	24.4	15.8	12.9	8.6	4.3	2.9	1.4	0.0	0.0
80°	129.1	40.2	14.3	10.0	7.2	5.7	2.9	1.4	0.0	0.0	0.0
82.5°	116.2	20.1	8.6	5.7	4.3	2.9	1.4	1.4	0.0	0.0	0.0
85°	63.1	11.5	5.7	4.3	2.9	1.4	1.4	0.0	0.0	0.0	0.0
87.5°	11.5	5.7	4.3	2.9	2.9	1.4	1.4	1.4	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)