

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: P652392

Luminaire Tested: **GALN-SA5B-840-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652392
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-840-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 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: 19713 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

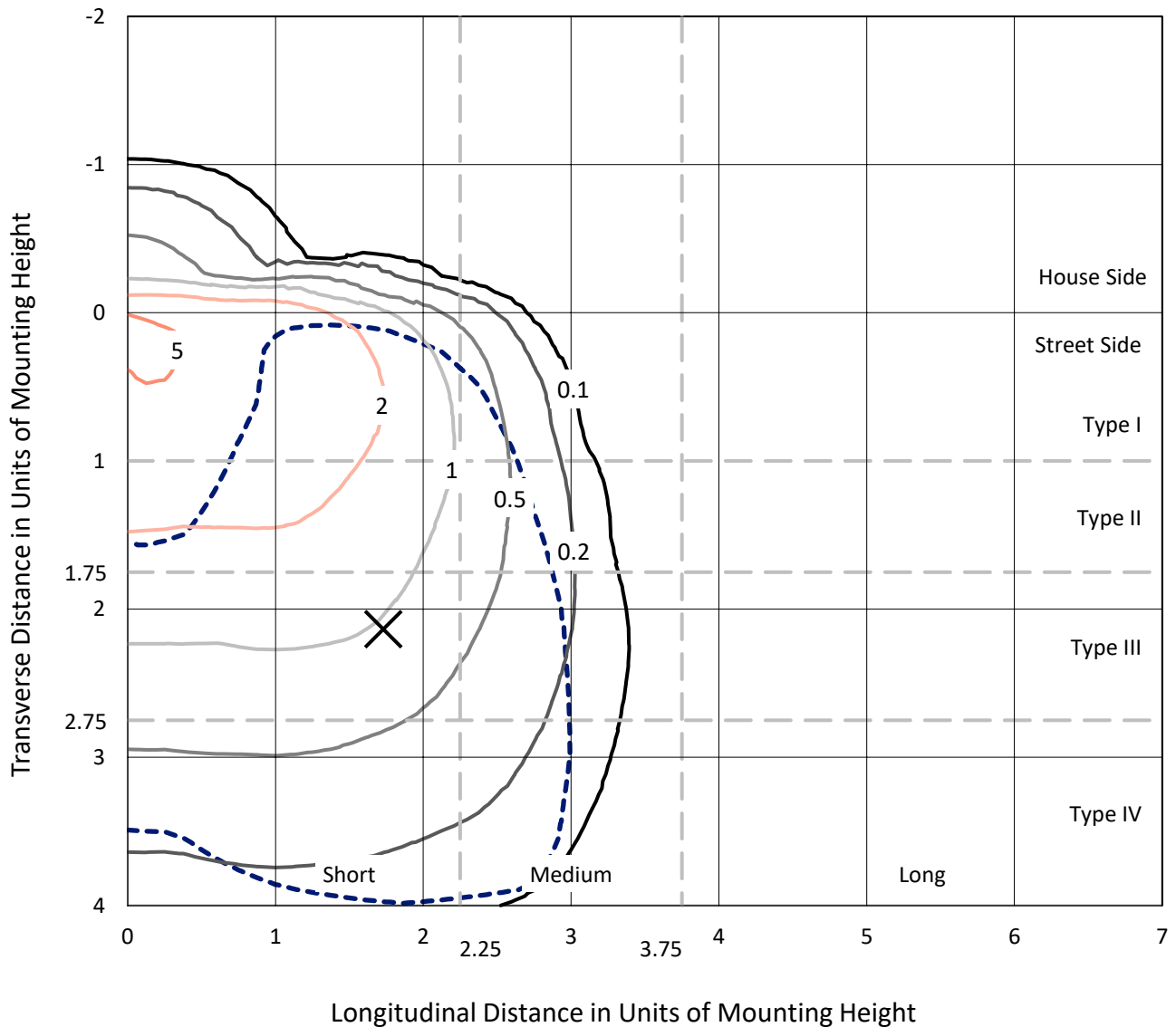
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

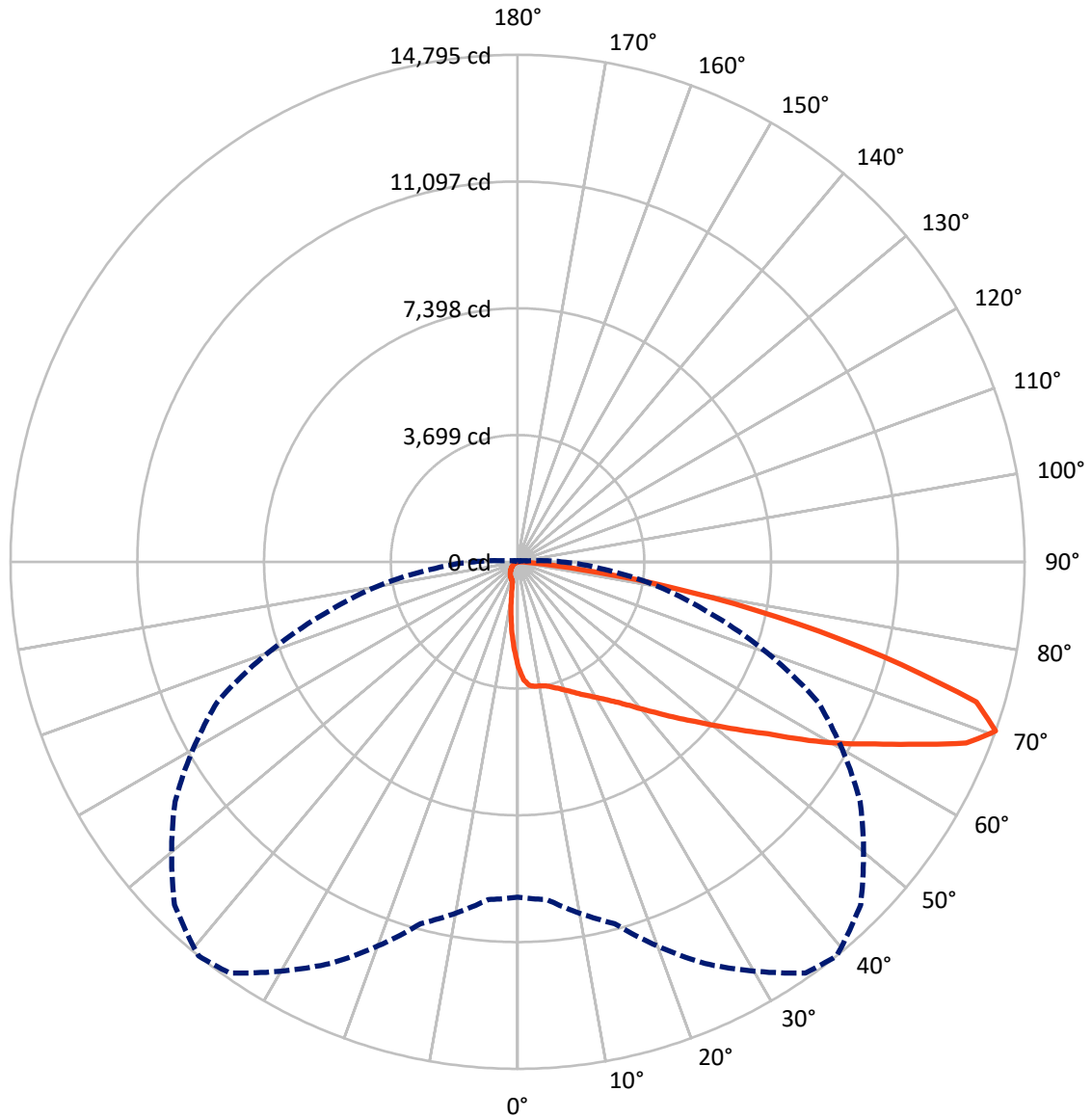
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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
House Side	Lumens	1285.4	0.0	1285.4
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	18427.6	0.0	18427.6
	% Fixture	93.5	0.0	93.5
Total	Lumens	19713.0	0.0	19713.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.4	1.3
10°-20°	681.8	3.5
20°-30°	1142.2	5.8
30°-40°	1771.4	9.0
40°-50°	2807.1	14.2
50°-60°	4114.8	20.9
60°-70°	5274.1	26.8
70°-80°	3314.1	16.8
80°-90°	345.3	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°	19713.0	100.0
0°-180°	19713.0	100.0

Coefficient of Utilization

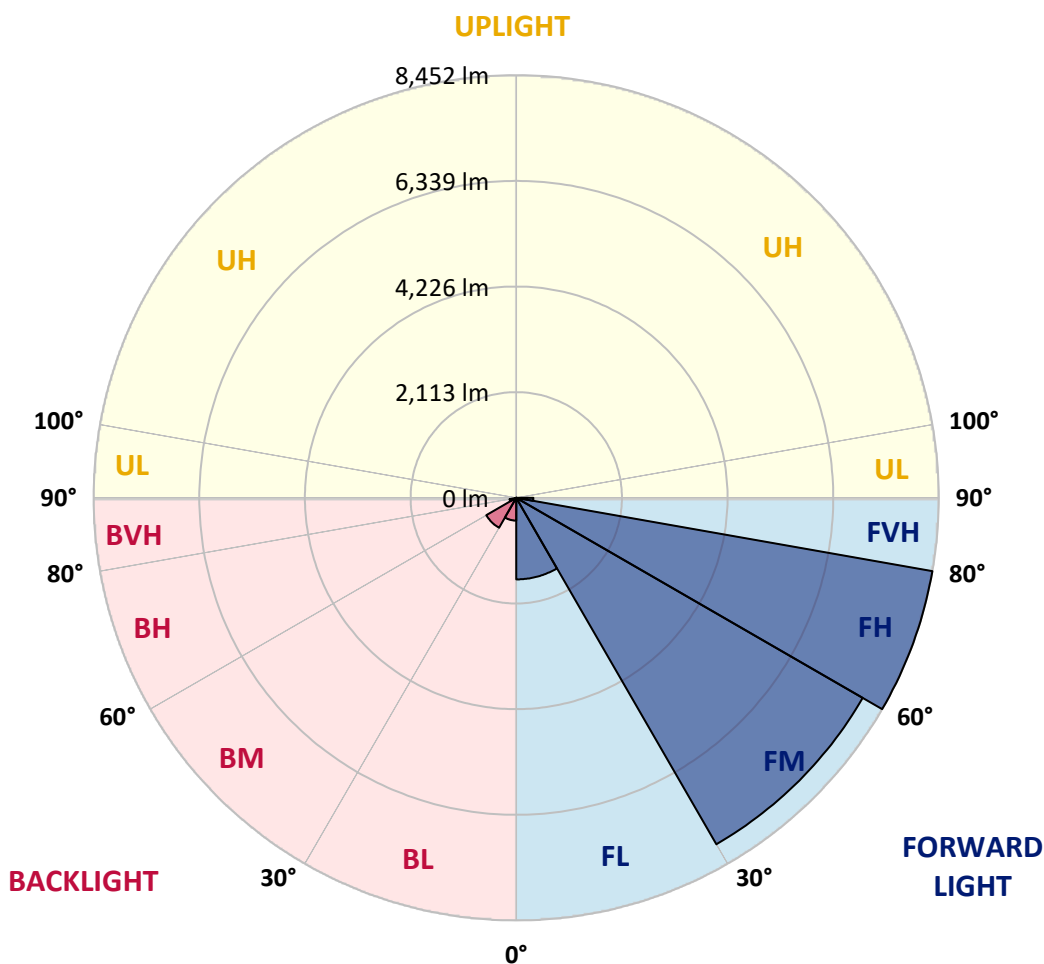


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1631.2	8.3			
FM (30°-60°)	8001.5	40.6			
FH (60°-80°)	8452.3	42.9			G4/12000
FVH (80°-90°)	342.7	1.7			G3/500
BL (0°-30°)	455.1	2.3	B1/500		
BM (30°-60°)	691.8	3.5	B1/1000		
BH (60°-80°)	135.9	0.7	B1/500		G1/500
BVH (80°-90°)	2.5	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-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3075.9	3075.9	3075.9	3075.9	3075.9	3075.9	3075.9	3075.9	3075.9	3075.9	3075.9
2.5°	3554.2	3542.2	3526.3	3507.7	3454.7	3445.5	3413.7	3346.2	3265.4	3199.1	3107.7
5°	3722.4	3729.0	3717.1	3683.9	3645.5	3623.0	3583.2	3478.6	3373.9	3240.2	3090.5
7.5°	3760.8	3774.0	3759.4	3727.6	3690.6	3666.8	3634.9	3544.8	3423.0	3270.6	3065.3
10°	3756.8	3772.7	3763.4	3734.3	3703.8	3681.3	3646.8	3575.3	3477.3	3317.0	3073.3
12.5°	3750.2	3771.4	3770.0	3755.5	3730.3	3713.1	3691.9	3628.3	3536.9	3384.5	3117.0
15°	3731.6	3758.1	3782.0	3793.9	3795.2	3795.2	3768.7	3701.2	3613.7	3473.3	3173.9
17.5°	3739.6	3770.0	3829.7	3864.1	3887.9	3885.3	3857.5	3784.6	3688.0	3564.7	3233.6
20°	3788.6	3829.7	3913.1	3982.0	4005.9	3997.9	3960.8	3876.0	3766.1	3642.9	3291.8
22.5°	3909.1	3946.2	4050.8	4131.7	4148.9	4127.7	4074.7	3959.5	3860.1	3727.6	3362.1
25°	4089.3	4133.0	4229.7	4290.6	4290.6	4278.8	4204.6	4069.4	3966.1	3845.6	3453.5
27.5°	4307.9	4344.9	4440.3	4494.6	4462.9	4428.4	4354.2	4191.3	4092.0	3993.9	3563.4
30°	4529.1	4552.9	4653.6	4677.5	4644.3	4600.6	4521.1	4358.2	4270.8	4195.2	3722.4
32.5°	4738.4	4790.1	4873.5	4868.2	4823.1	4801.9	4729.1	4555.6	4506.6	4498.6	3944.9
35°	4947.7	4987.5	5061.6	5080.1	5040.4	5036.4	4983.4	4854.9	4856.3	4907.9	4292.0
37.5°	5127.8	5163.6	5251.0	5292.1	5300.1	5319.9	5298.7	5213.9	5334.5	5476.3	4751.6
40°	5278.9	5329.2	5440.4	5512.0	5594.2	5667.0	5670.9	5689.5	5931.9	6175.6	5351.7
42.5°	5396.8	5466.9	5628.6	5761.0	5949.1	6041.9	6116.1	6218.0	6626.1	6990.3	6059.1
45°	5550.4	5631.3	5832.6	6040.6	6334.7	6487.0	6590.3	6863.1	7442.1	7938.8	6785.0
47.5°	5804.8	5847.1	6052.5	6355.9	6742.6	6959.9	7161.2	7574.6	8317.7	8762.8	7389.1
50°	6132.0	6159.7	6314.7	6736.0	7236.7	7522.8	7889.8	8375.9	9226.4	9446.3	7730.8
52.5°	6493.6	6502.9	6619.4	7154.6	7790.4	8150.8	8561.4	9161.5	9966.9	9933.8	7957.4
55°	6913.5	6900.2	6999.6	7608.9	8446.2	8858.2	9336.4	9965.6	10609.4	10279.5	8087.1
57.5°	7394.4	7358.6	7455.3	8211.7	9286.0	9778.8	10265.0	10659.7	11107.4	10569.6	8149.5
60°	7897.7	7826.2	7941.5	8888.6	10275.6	10743.2	11147.2	11253.2	11632.0	10800.1	8042.1
62.5°	8299.2	8300.4	8515.0	9609.3	11292.9	11702.3	11916.8	12012.2	12083.7	10749.8	7477.8
65°	8925.7	8946.9	9290.0	10609.4	12470.5	12825.6	12972.6	12662.6	12103.6	10124.5	6630.0
67.5°	9572.2	9639.7	10267.6	11987.0	13831.0	14117.1	13927.7	12788.5	11563.2	8697.9	5027.2
70°	9782.8	9894.0	10928.6	12935.5	14647.0	14795.4	14154.2	12201.6	9666.2	5815.3	2530.1
72.5°	8964.1	9144.3	10548.4	12589.8	14126.4	13997.9	12663.9	10233.2	6145.2	2208.2	772.3
75°	6321.4	6400.9	8766.8	10443.8	11361.8	10997.5	9633.1	6596.9	2527.5	620.0	264.9
77.5°	3264.0	3225.6	5213.9	6929.4	8103.0	7725.5	6308.2	3415.0	957.7	258.3	164.2
80°	1687.6	1715.5	2255.9	3630.9	4946.3	4551.6	3363.3	1583.0	510.0	143.1	125.8
82.5°	945.8	887.5	1296.8	1585.6	2312.9	1813.4	1290.3	1120.7	222.5	86.1	119.3
85°	172.2	180.1	711.3	857.1	802.7	510.0	416.0	748.4	64.9	47.7	83.4
87.5°	2.7	2.7	137.8	246.4	156.3	71.6	131.1	107.3	13.3	18.6	14.5
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°	3075.9	3075.9	3075.9	3075.9	3075.9	3075.9	3075.9	3075.9	3075.9	3075.9	3075.9
2.5°	3061.3	3011.0	2916.9	2824.2	2706.3	2609.6	2544.7	2477.2	2408.3	2413.6	2429.5
5°	3008.3	2921.0	2735.4	2539.4	2351.3	2181.7	2014.9	1865.2	1804.2	1748.6	1751.2
7.5°	2955.4	2832.2	2560.6	2253.3	1968.4	1679.7	1470.4	1298.2	1206.8	1137.9	1118.0
10°	2931.6	2768.6	2400.3	1977.8	1573.8	1258.5	989.5	849.2	740.5	706.0	715.4
12.5°	2942.2	2736.8	2255.9	1728.7	1247.9	876.9	688.9	617.3	593.5	589.5	586.8
15°	2962.0	2714.2	2114.2	1453.2	916.7	651.8	578.9	565.7	563.0	560.4	561.7
17.5°	2988.5	2694.4	1963.1	1194.9	703.4	569.6	548.4	541.8	540.5	540.5	540.5
20°	3015.0	2671.9	1794.9	964.4	586.8	537.8	524.6	520.6	519.2	519.2	518.0
22.5°	3045.4	2652.0	1624.1	757.7	540.5	515.3	503.3	500.7	499.4	498.0	498.0
25°	3089.2	2626.9	1442.6	620.0	511.3	494.1	482.1	479.5	478.2	472.9	474.2
27.5°	3147.4	2608.3	1255.8	535.2	484.8	467.6	459.7	455.7	453.0	449.1	450.4
30°	3226.9	2592.4	1057.1	488.8	454.4	439.8	431.9	429.2	426.6	422.6	422.6
32.5°	3364.7	2599.0	847.8	451.7	426.6	409.3	401.4	398.7	396.1	392.1	392.1
35°	3571.3	2637.5	678.3	419.9	393.4	376.2	368.3	368.3	364.3	359.0	357.7
37.5°	3909.1	2735.4	544.5	389.5	361.6	345.7	336.5	333.8	329.8	321.9	320.6
40°	4307.9	2887.8	458.3	359.0	332.5	316.6	308.6	300.7	290.1	282.2	280.8
42.5°	4808.6	3044.1	397.4	328.5	304.7	290.1	280.8	267.6	251.7	241.1	239.8
45°	5330.5	3187.2	356.3	300.7	278.2	266.3	255.7	234.5	214.6	201.3	200.0
47.5°	5720.0	3213.7	323.2	274.3	255.7	243.7	229.2	202.7	176.2	164.2	160.3
50°	5904.1	3085.2	288.8	247.7	233.1	219.9	201.3	170.9	141.7	127.2	124.6
52.5°	5969.0	2862.6	261.0	223.9	210.6	194.7	172.2	137.8	111.3	96.7	95.4
55°	5942.5	2581.8	235.8	201.3	184.1	165.6	143.1	109.9	82.2	70.2	67.5
57.5°	5803.4	2224.1	210.6	178.8	157.6	139.1	114.0	82.2	55.7	45.1	43.7
60°	5428.6	1736.7	185.4	153.7	133.8	114.0	90.1	58.3	34.5	25.1	25.1
62.5°	4795.4	1288.9	161.6	128.5	112.6	91.4	63.6	37.1	18.6	13.3	11.9
65°	4007.2	951.1	135.1	108.7	94.0	71.6	45.1	22.5	9.3	4.0	2.7
67.5°	2796.4	586.8	112.6	88.7	76.9	51.6	27.8	9.3	4.0	0.0	0.0
70°	1270.3	279.5	86.1	67.5	58.3	37.1	14.5	5.3	2.7	0.0	0.0
72.5°	394.8	147.0	61.0	49.0	39.8	23.9	8.0	4.0	2.7	0.0	0.0
75°	182.8	94.0	38.4	26.5	22.5	11.9	5.3	2.7	1.3	0.0	0.0
77.5°	136.4	72.8	22.5	14.5	11.9	8.0	4.0	2.7	1.3	0.0	0.0
80°	119.3	37.1	13.3	9.3	6.6	5.3	2.7	1.3	0.0	0.0	0.0
82.5°	107.3	18.6	8.0	5.3	4.0	2.7	1.3	1.3	0.0	0.0	0.0
85°	58.3	10.6	5.3	4.0	2.7	1.3	1.3	0.0	0.0	0.0	0.0
87.5°	10.6	5.3	4.0	2.7	2.7	1.3	1.3	1.3	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)