

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: P454869

Luminaire Tested: **GALN-SA6A-730-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454869
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-SA6A-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA 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: 20315 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

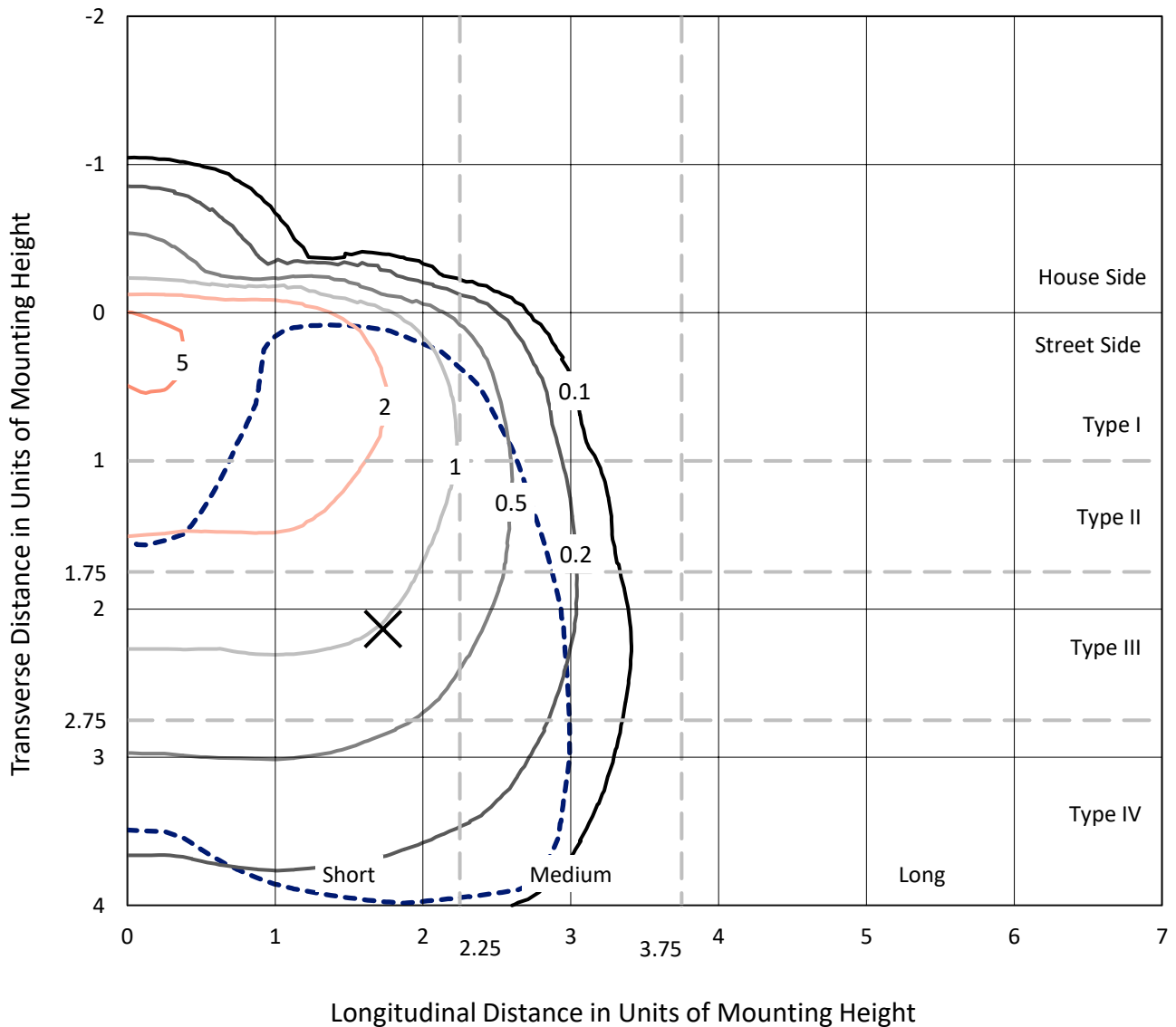
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

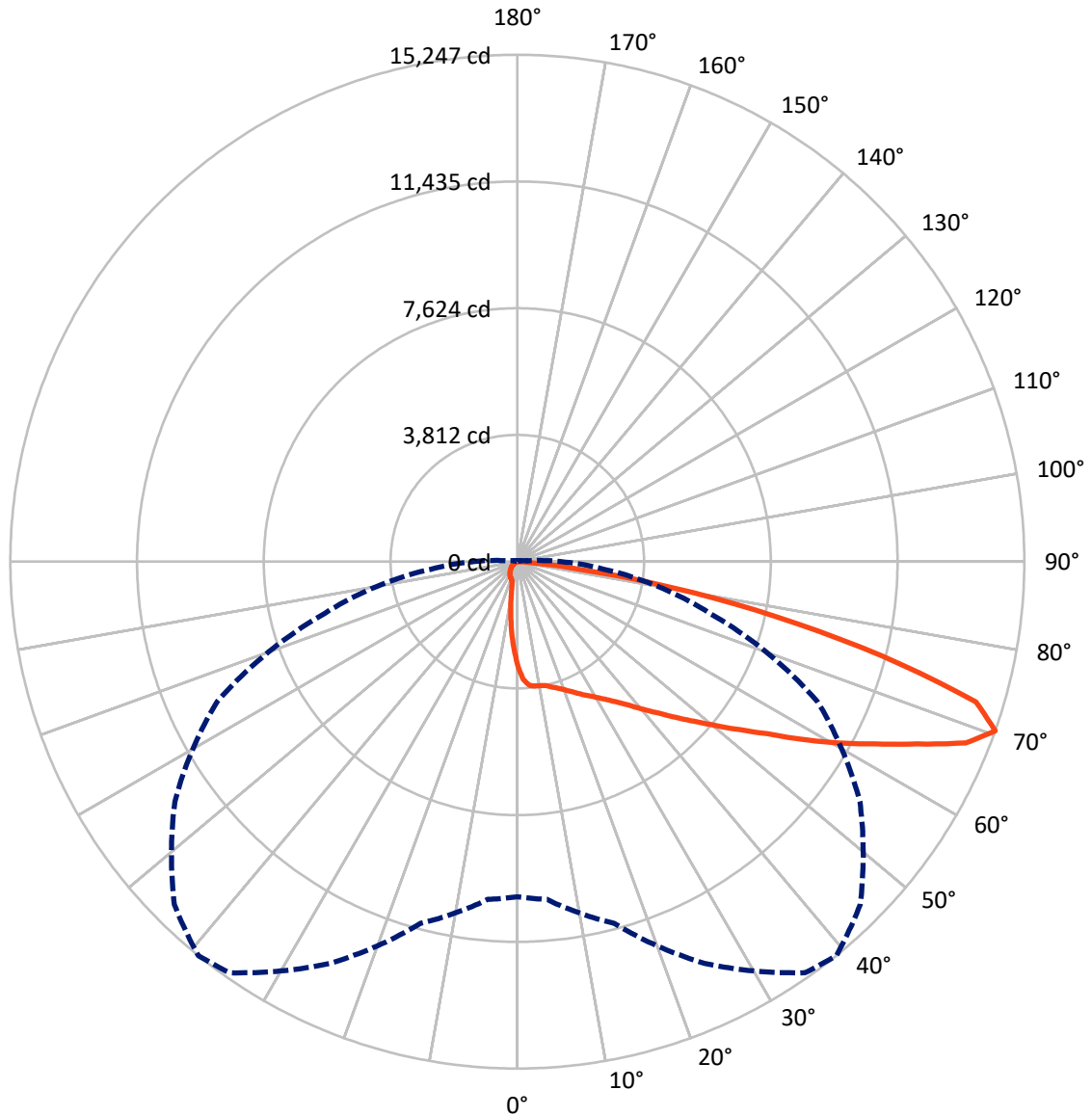
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	1324.6	0.0	1324.6
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	18990.4	0.0	18990.4
	% Fixture	93.5	0.0	93.5
Total	Lumens	20315.0	0.0	20315.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.4	1.3
10°-20°	702.6	3.5
20°-30°	1177.0	5.8
30°-40°	1825.5	9.0
40°-50°	2892.8	14.2
50°-60°	4240.4	20.9
60°-70°	5435.2	26.8
70°-80°	3415.3	16.8
80°-90°	355.8	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°	20315.0	100.0
0°-180°	20315.0	100.0

Coefficient of Utilization



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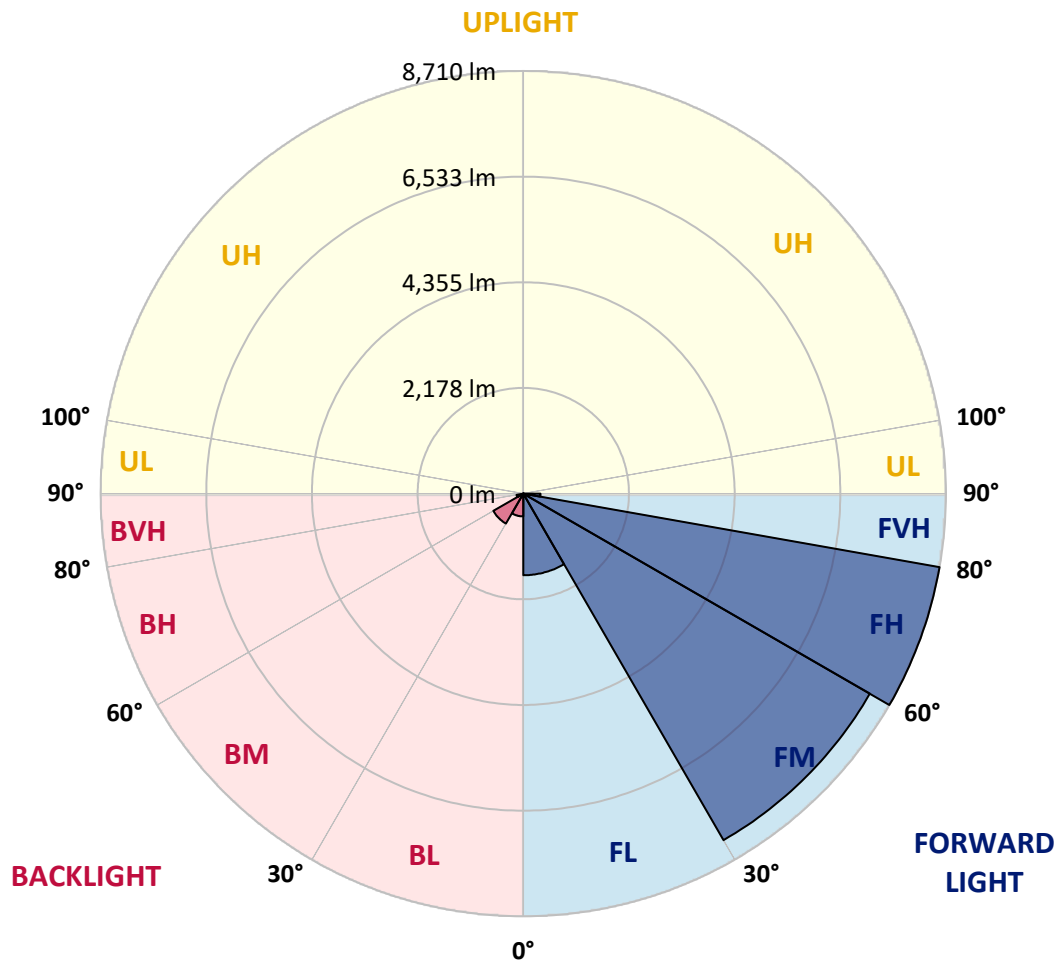
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1681.0	8.3			
FM (30°-60°)	8245.8	40.6			
FH (60°-80°)	8710.4	42.9			G4/12000
FVH (80°-90°)	353.2	1.7			G3/500
BL (0°-30°)	469.0	2.3	B1/500		
BM (30°-60°)	712.9	3.5	B1/1000		
BH (60°-80°)	140.1	0.7	B1/500		G1/500
BVH (80°-90°)	2.6	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°	3169.8	3169.8	3169.8	3169.8	3169.8	3169.8	3169.8	3169.8	3169.8	3169.8	3169.8
2.5°	3662.6	3650.4	3634.0	3614.9	3560.3	3550.7	3517.9	3448.3	3365.1	3296.8	3202.6
5°	3836.0	3842.8	3830.6	3796.4	3756.8	3733.6	3692.7	3584.8	3477.0	3339.1	3184.9
7.5°	3875.6	3889.3	3874.2	3841.5	3803.3	3778.7	3745.9	3653.1	3527.5	3370.5	3158.9
10°	3871.5	3887.9	3878.3	3848.3	3816.9	3793.7	3758.2	3684.5	3583.5	3418.3	3167.1
12.5°	3864.7	3886.5	3885.2	3870.1	3844.2	3826.5	3804.6	3739.1	3644.9	3487.9	3212.2
15°	3845.6	3872.9	3897.5	3909.7	3911.1	3911.1	3883.8	3814.2	3724.1	3579.4	3270.9
17.5°	3853.8	3885.2	3946.6	3982.1	4006.7	4003.9	3975.3	3900.2	3800.5	3673.6	3332.3
20°	3904.3	3946.6	4032.6	4103.6	4128.2	4120.0	4081.7	3994.4	3881.1	3754.1	3392.4
22.5°	4028.5	4066.7	4174.6	4257.8	4275.6	4253.8	4199.1	4080.4	3978.0	3841.5	3464.7
25°	4214.2	4259.2	4358.9	4421.7	4421.7	4409.4	4332.9	4193.7	4087.2	3963.0	3558.9
27.5°	4439.4	4477.6	4575.9	4631.9	4599.1	4563.6	4487.2	4319.3	4216.9	4115.9	3672.2
30°	4667.4	4692.0	4795.7	4820.3	4786.2	4741.1	4659.2	4491.3	4401.2	4323.4	3836.0
32.5°	4883.1	4936.3	5022.3	5016.9	4970.4	4948.6	4873.5	4694.7	4644.2	4636.0	4065.4
35°	5098.8	5139.7	5216.2	5235.3	5194.3	5190.2	5135.6	5003.2	5004.6	5057.8	4423.0
37.5°	5284.4	5321.3	5411.4	5453.7	5461.9	5482.4	5460.5	5373.2	5497.4	5643.5	4896.7
40°	5440.1	5491.9	5606.6	5680.3	5765.0	5840.0	5844.1	5863.2	6113.1	6364.2	5515.1
42.5°	5561.5	5633.9	5800.4	5937.0	6130.8	6226.4	6302.8	6407.9	6828.4	7203.8	6244.1
45°	5719.9	5803.2	6010.7	6225.0	6528.1	6685.1	6791.5	7072.7	7669.3	8181.2	6992.2
47.5°	5982.0	6025.7	6237.3	6549.9	6948.5	7172.4	7379.9	7805.8	8571.7	9030.3	7614.7
50°	6319.2	6347.9	6507.6	6941.7	7457.7	7752.6	8130.7	8631.7	9508.1	9734.8	7966.9
52.5°	6691.9	6701.4	6821.6	7373.1	8028.3	8399.7	8822.8	9441.3	10271.3	10237.1	8200.3
55°	7124.6	7111.0	7213.4	7841.3	8704.1	9128.6	9621.5	10269.9	10933.3	10593.4	8334.1
57.5°	7620.2	7583.3	7683.0	8462.5	9569.6	10077.4	10578.4	10985.2	11446.6	10892.4	8398.3
60°	8138.9	8065.2	8184.0	9160.0	10589.3	11071.2	11487.6	11596.8	11987.2	11129.9	8287.7
62.5°	8552.6	8553.9	8775.1	9902.7	11637.8	12059.6	12280.7	12379.0	12452.7	11078.0	7706.2
65°	9198.3	9220.1	9573.7	10933.3	12851.4	13217.2	13368.7	13049.3	12473.2	10433.7	6832.5
67.5°	9864.4	9934.1	10581.1	12353.1	14253.3	14548.2	14353.0	13179.0	11916.2	8963.5	5180.7
70°	10081.5	10196.2	11262.3	13330.5	15094.3	15247.2	14586.4	12574.2	9961.4	5992.9	2607.4
72.5°	9237.8	9423.5	10870.5	12974.2	14557.8	14425.4	13050.7	10545.6	6332.8	2275.7	795.9
75°	6514.4	6596.3	9034.4	10762.7	11708.7	11333.3	9927.2	6798.4	2604.7	638.9	273.0
77.5°	3363.7	3324.1	5373.2	7141.0	8350.5	7961.5	6500.8	3519.3	987.0	266.2	169.3
80°	1739.2	1767.8	2324.8	3741.8	5097.4	4690.6	3466.1	1631.3	525.6	147.4	129.7
82.5°	974.7	914.6	1336.5	1634.1	2383.5	1868.9	1329.6	1154.9	229.3	88.7	122.9
85°	177.5	185.7	733.1	883.2	827.3	525.6	428.7	771.3	66.9	49.1	86.0
87.5°	2.7	2.7	142.0	253.9	161.1	73.7	135.1	110.6	13.7	19.1	15.0
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°	3169.8	3169.8	3169.8	3169.8	3169.8	3169.8	3169.8	3169.8	3169.8	3169.8	3169.8
2.5°	3154.8	3102.9	3006.0	2910.5	2789.0	2689.3	2622.4	2552.8	2481.8	2487.3	2503.7
5°	3100.2	3010.1	2819.0	2617.0	2423.1	2248.4	2076.4	1922.1	1859.3	1802.0	1804.7
7.5°	3045.6	2918.7	2638.8	2322.1	2028.6	1731.0	1515.3	1337.8	1243.6	1172.6	1152.2
10°	3021.0	2853.1	2473.6	2038.1	1621.8	1296.9	1019.8	875.0	763.1	727.6	737.2
12.5°	3032.0	2820.4	2324.8	1781.5	1286.0	903.7	709.9	636.2	611.6	607.5	604.8
15°	3052.4	2797.2	2178.8	1497.5	944.7	671.6	596.6	582.9	580.2	577.5	578.8
17.5°	3079.7	2776.7	2023.1	1231.3	724.9	587.0	565.2	558.3	557.0	557.0	557.0
20°	3107.0	2753.5	1849.8	993.8	604.8	554.2	540.6	536.5	535.1	535.1	533.8
22.5°	3138.4	2733.0	1673.7	780.9	557.0	531.0	518.8	516.0	514.7	513.3	513.3
25°	3183.5	2707.1	1486.6	638.9	526.9	509.2	496.9	494.2	492.8	487.4	488.7
27.5°	3243.6	2687.9	1294.1	551.5	499.6	481.9	473.7	469.6	466.9	462.8	464.1
30°	3325.5	2671.6	1089.4	503.7	468.2	453.2	445.0	442.3	439.6	435.5	435.5
32.5°	3467.4	2678.4	873.7	465.5	439.6	421.8	413.6	410.9	408.2	404.1	404.1
35°	3680.4	2718.0	698.9	432.7	405.4	387.7	379.5	379.5	375.4	370.0	368.6
37.5°	4028.5	2819.0	561.1	401.3	372.7	356.3	346.7	344.0	339.9	331.7	330.4
40°	4439.4	2976.0	472.3	370.0	342.6	326.3	318.1	309.9	299.0	290.8	289.4
42.5°	4955.4	3137.1	409.5	338.6	314.0	299.0	289.4	275.8	259.4	248.5	247.1
45°	5493.3	3284.5	367.2	309.9	286.7	274.4	263.5	241.6	221.2	207.5	206.1
47.5°	5894.6	3311.8	333.1	282.6	263.5	251.2	236.2	208.9	181.6	169.3	165.2
50°	6084.4	3179.4	297.6	255.3	240.3	226.6	207.5	176.1	146.1	131.1	128.3
52.5°	6151.3	2950.1	268.9	230.7	217.1	200.7	177.5	142.0	114.7	99.7	98.3
55°	6124.0	2660.6	243.0	207.5	189.8	170.6	147.4	113.3	84.6	72.4	69.6
57.5°	5980.6	2292.1	217.1	184.3	162.5	143.3	117.4	84.6	57.3	46.4	45.0
60°	5594.3	1789.7	191.1	158.4	137.9	117.4	92.8	60.1	35.5	25.9	25.9
62.5°	4941.8	1328.3	166.5	132.4	116.0	94.2	65.5	38.2	19.1	13.7	12.3
65°	4129.5	980.2	139.2	111.9	96.9	73.7	46.4	23.2	9.6	4.1	2.7
67.5°	2881.8	604.8	116.0	91.5	79.2	53.2	28.7	9.6	4.1	0.0	0.0
70°	1309.2	288.0	88.7	69.6	60.1	38.2	15.0	5.5	2.7	0.0	0.0
72.5°	406.8	151.5	62.8	50.5	41.0	24.6	8.2	4.1	2.7	0.0	0.0
75°	188.4	96.9	39.6	27.3	23.2	12.3	5.5	2.7	1.4	0.0	0.0
77.5°	140.6	75.1	23.2	15.0	12.3	8.2	4.1	2.7	1.4	0.0	0.0
80°	122.9	38.2	13.7	9.6	6.8	5.5	2.7	1.4	0.0	0.0	0.0
82.5°	110.6	19.1	8.2	5.5	4.1	2.7	1.4	1.4	0.0	0.0	0.0
85°	60.1	10.9	5.5	4.1	2.7	1.4	1.4	0.0	0.0	0.0	0.0
87.5°	10.9	5.5	4.1	2.7	2.7	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)