

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: P452810

Luminaire Tested: **GALN-SA3D-740-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452810
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-SA3D-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA 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: 18996 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

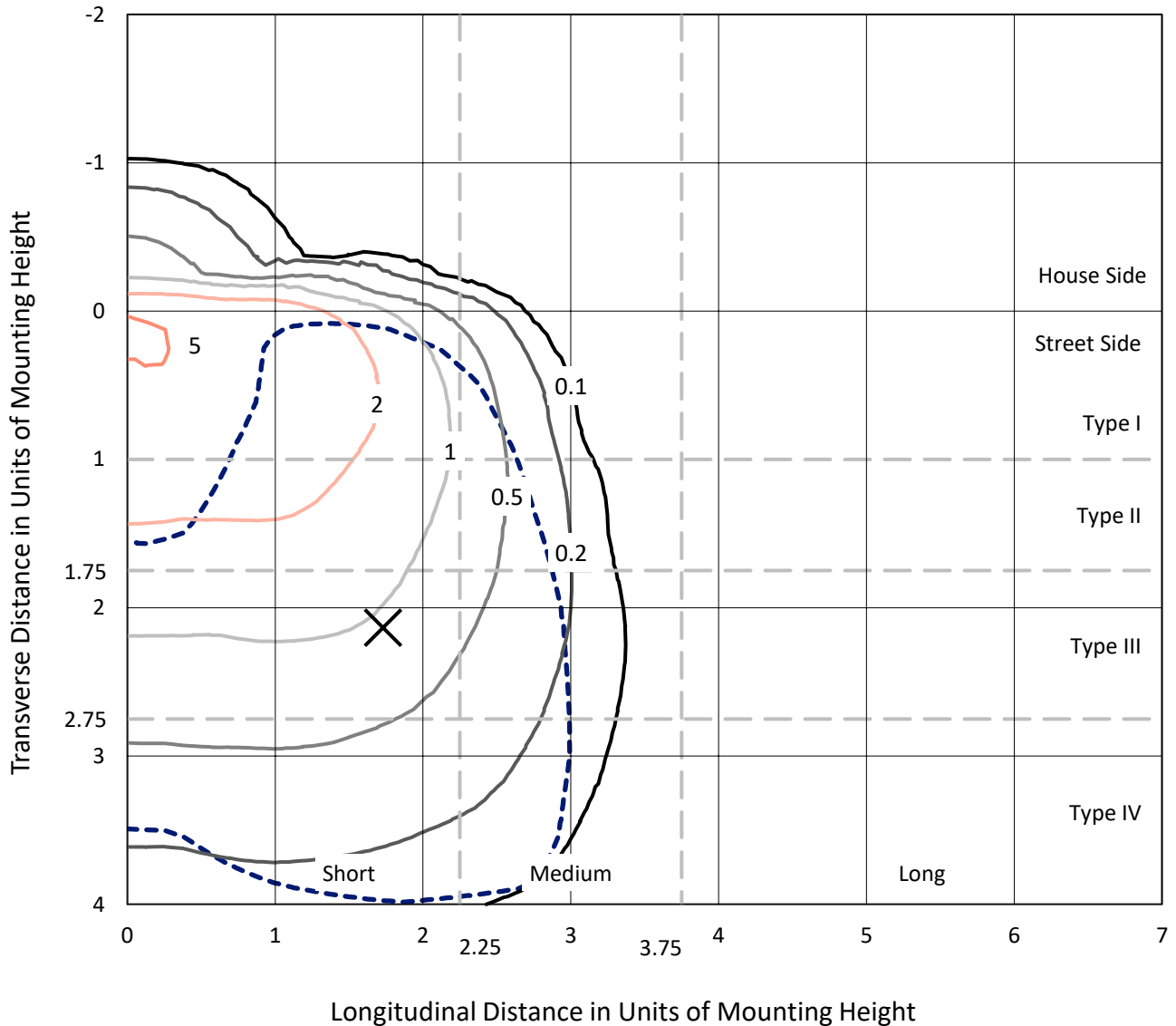
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

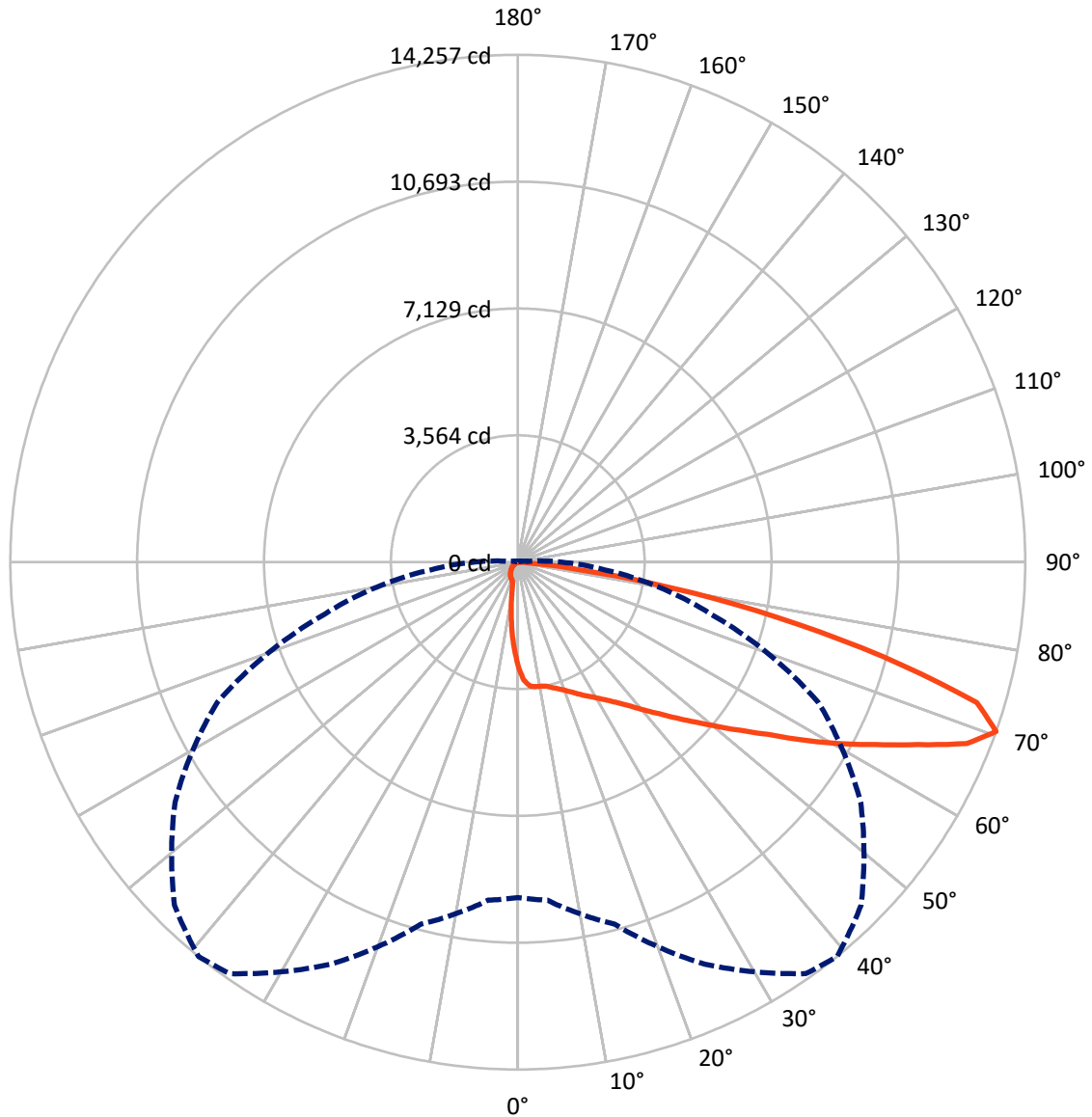
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	1238.6	0.0	1238.6
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	17757.4	0.0	17757.4
	% Fixture	93.5	0.0	93.5
Total	Lumens	18996.0	0.0	18996.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.8	1.3
10°-20°	657.0	3.5
20°-30°	1100.6	5.8
30°-40°	1706.9	9.0
40°-50°	2705.0	14.2
50°-60°	3965.1	20.9
60°-70°	5082.3	26.8
70°-80°	3193.6	16.8
80°-90°	332.7	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°	18996.0	100.0
0°-180°	18996.0	100.0

Coefficient of Utilization



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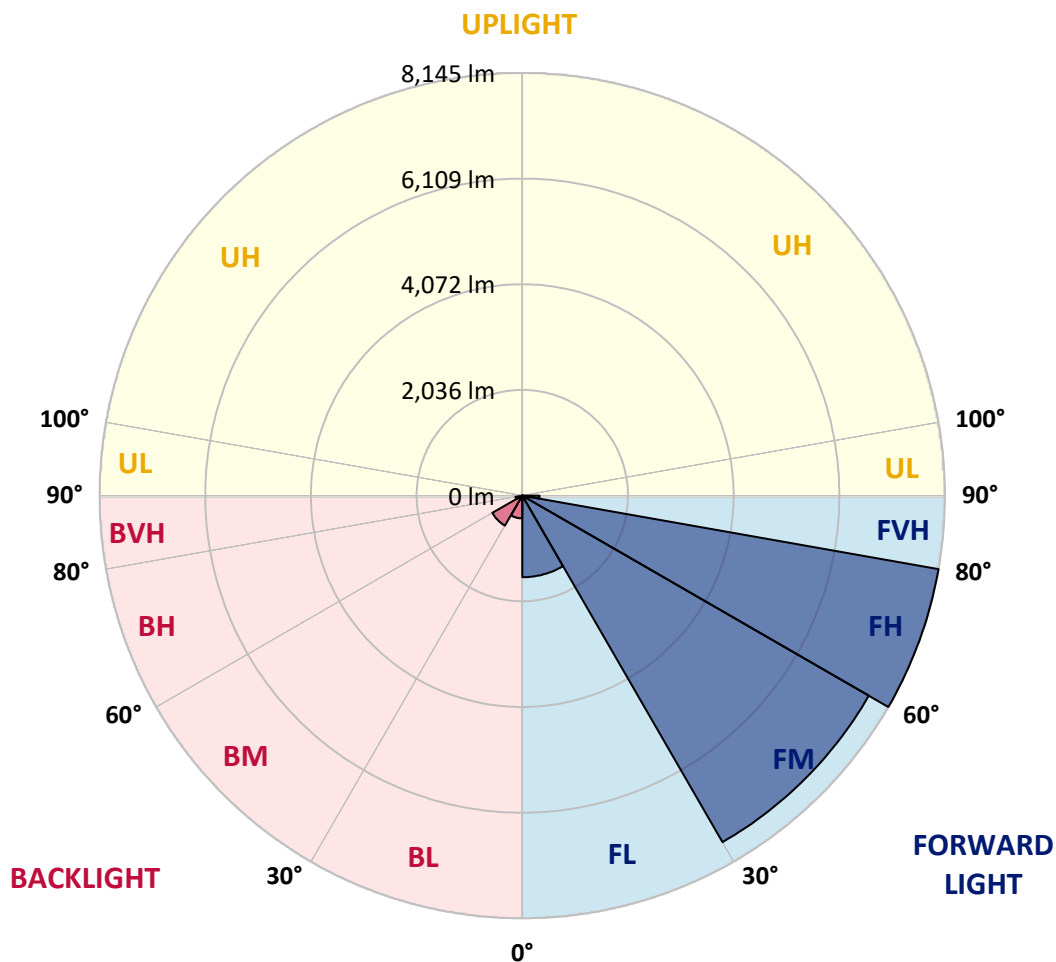
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1571.8	8.3			
FM (30°-60°)	7710.4	40.6			
FH (60°-80°)	8144.9	42.9			G4/12000
FVH (80°-90°)	330.3	1.7			G3/500
BL (0°-30°)	438.6	2.3	B1/500		
BM (30°-60°)	666.6	3.5	B1/1000		
BH (60°-80°)	131.0	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°	2964.0	2964.0	2964.0	2964.0	2964.0	2964.0	2964.0	2964.0	2964.0	2964.0	2964.0
2.5°	3424.8	3413.4	3398.0	3380.2	3329.1	3320.2	3289.5	3224.4	3146.6	3082.7	2994.7
5°	3587.0	3593.3	3581.9	3549.9	3512.9	3491.2	3452.9	3352.1	3251.2	3122.3	2978.1
7.5°	3624.0	3636.7	3622.7	3592.1	3556.3	3533.3	3502.7	3415.9	3298.5	3151.7	2953.8
10°	3620.1	3635.5	3626.5	3598.4	3569.1	3547.4	3514.2	3445.3	3350.8	3196.4	2961.5
12.5°	3613.8	3634.2	3632.9	3618.9	3594.6	3578.0	3557.6	3496.3	3408.2	3261.5	3003.6
15°	3595.9	3621.4	3644.4	3655.9	3657.2	3657.2	3631.6	3566.5	3482.3	3347.0	3058.5
17.5°	3603.6	3632.9	3690.4	3723.5	3746.5	3744.0	3717.2	3647.0	3553.8	3435.1	3115.9
20°	3650.8	3690.4	3770.8	3837.2	3860.1	3852.5	3816.7	3735.0	3629.1	3510.4	3172.1
22.5°	3766.9	3802.7	3903.5	3981.4	3998.0	3977.6	3926.5	3815.5	3719.7	3592.1	3239.8
25°	3940.5	3982.7	4075.9	4134.6	4134.6	4123.1	4051.6	3921.4	3821.8	3705.7	3327.8
27.5°	4151.2	4186.9	4278.8	4331.2	4300.5	4267.3	4195.8	4038.8	3943.1	3848.6	3433.8
30°	4364.3	4387.3	4484.3	4507.3	4475.4	4433.3	4356.7	4199.7	4115.4	4042.7	3587.0
32.5°	4566.0	4615.8	4696.2	4691.1	4647.7	4627.3	4557.1	4389.9	4342.6	4335.0	3801.4
35°	4767.7	4806.0	4877.5	4895.4	4857.1	4853.2	4802.2	4678.4	4679.6	4729.4	4135.9
37.5°	4941.3	4975.8	5060.0	5099.6	5107.3	5126.4	5106.0	5024.3	5140.5	5277.0	4578.8
40°	5086.8	5135.4	5242.6	5311.5	5390.6	5460.9	5464.7	5482.6	5716.2	5951.0	5157.1
42.5°	5200.5	5268.1	5423.8	5551.5	5732.8	5822.1	5893.6	5991.9	6385.0	6736.1	5838.7
45°	5348.5	5426.4	5620.4	5820.8	6104.2	6251.0	6350.6	6613.5	7171.4	7650.1	6538.2
47.5°	5593.6	5634.5	5832.3	6124.6	6497.4	6706.7	6900.7	7299.0	8015.1	8444.0	7120.3
50°	5908.9	5935.7	6085.1	6491.0	6973.5	7249.2	7602.8	8071.3	8890.8	9102.7	7449.6
52.5°	6257.4	6266.3	6378.7	6894.4	7507.1	7854.3	8250.0	8828.3	9604.4	9572.5	7667.9
55°	6662.0	6649.3	6745.0	7332.2	8138.9	8535.9	8996.8	9603.1	10223.5	9905.6	7793.0
57.5°	7125.4	7090.9	7184.1	7913.0	8948.2	9423.1	9891.6	10272.0	10703.4	10185.2	7853.0
60°	7610.5	7541.5	7652.6	8565.3	9901.8	10352.4	10741.7	10843.8	11208.9	10407.3	7749.6
62.5°	7997.3	7998.5	8205.3	9259.7	10882.1	11276.6	11483.4	11575.3	11644.2	10358.8	7205.8
65°	8601.0	8621.5	8952.1	10223.5	12016.9	12359.1	12500.7	12202.0	11663.4	9756.3	6388.9
67.5°	9224.0	9289.1	9894.1	11551.0	13327.9	13603.6	13421.1	12323.3	11142.5	8381.5	4844.3
70°	9426.9	9534.2	10531.1	12465.0	14114.2	14257.2	13639.4	11757.8	9314.6	5603.8	2438.1
72.5°	8638.1	8811.7	10164.8	12131.8	13612.6	13488.8	12203.3	9860.9	5921.7	2127.9	744.2
75°	6091.4	6168.0	8447.9	10063.9	10948.5	10597.5	9282.7	6357.0	2435.6	597.4	255.3
77.5°	3145.3	3108.3	5024.3	6677.4	7808.3	7444.5	6078.7	3290.8	922.9	248.9	158.3
80°	1626.3	1653.1	2173.9	3498.9	4766.4	4386.0	3241.0	1525.4	491.5	137.9	121.3
82.5°	911.4	855.3	1249.7	1528.0	2228.8	1747.5	1243.3	1079.9	214.5	83.0	114.9
85°	165.9	173.6	685.5	825.9	773.6	491.5	400.8	721.2	62.5	46.0	80.4
87.5°	2.6	2.6	132.8	237.4	150.6	68.9	126.4	103.4	12.8	17.9	14.0
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°	2964.0	2964.0	2964.0	2964.0	2964.0	2964.0	2964.0	2964.0	2964.0	2964.0	2964.0
2.5°	2950.0	2901.5	2810.8	2721.5	2607.9	2514.7	2452.2	2387.1	2320.7	2325.8	2341.1
5°	2898.9	2814.7	2636.0	2447.0	2265.8	2102.4	1941.6	1797.3	1738.6	1685.0	1687.5
7.5°	2847.9	2729.2	2467.5	2171.3	1896.9	1618.6	1416.9	1251.0	1162.9	1096.5	1077.4
10°	2824.9	2667.9	2313.0	1905.8	1516.5	1212.7	953.5	818.2	713.6	680.4	689.3
12.5°	2835.1	2637.2	2173.9	1665.8	1202.5	845.0	663.8	594.8	571.9	568.0	565.5
15°	2854.2	2615.5	2037.3	1400.3	883.3	628.0	557.8	545.1	542.5	540.0	541.2
17.5°	2879.8	2596.4	1891.8	1151.4	677.8	548.9	528.5	522.1	520.8	520.8	520.8
20°	2905.3	2574.7	1729.7	929.3	565.5	518.3	505.5	501.7	500.4	500.4	499.1
22.5°	2934.7	2555.5	1565.0	730.2	520.8	496.6	485.1	482.5	481.2	480.0	480.0
25°	2976.8	2531.3	1390.1	597.4	492.7	476.1	464.6	462.1	460.8	455.7	457.0
27.5°	3033.0	2513.4	1210.1	515.7	467.2	450.6	442.9	439.1	436.6	432.7	434.0
30°	3109.5	2498.1	1018.6	471.0	437.8	423.8	416.1	413.6	411.0	407.2	407.2
32.5°	3242.3	2504.5	817.0	435.3	411.0	394.4	386.8	384.2	381.7	377.8	377.8
35°	3441.4	2541.5	653.6	404.6	379.1	362.5	354.9	354.9	351.0	345.9	344.7
37.5°	3766.9	2636.0	524.6	375.3	348.5	333.2	324.2	321.7	317.8	310.2	308.9
40°	4151.2	2782.8	441.7	345.9	320.4	305.1	297.4	289.8	279.6	271.9	270.6
42.5°	4633.7	2933.4	382.9	316.6	293.6	279.6	270.6	257.9	242.5	232.3	231.0
45°	5136.6	3071.3	343.4	289.8	268.1	256.6	246.4	225.9	206.8	194.0	192.8
47.5°	5511.9	3096.8	311.5	264.2	246.4	234.9	220.8	195.3	169.8	158.3	154.5
50°	5689.4	2973.0	278.3	238.7	224.7	211.9	194.0	164.7	136.6	122.5	120.0
52.5°	5751.9	2758.5	251.5	215.7	203.0	187.6	165.9	132.8	107.2	93.2	91.9
55°	5726.4	2487.9	227.2	194.0	177.4	159.6	137.9	105.9	79.1	67.7	65.1
57.5°	5592.3	2143.2	203.0	172.3	151.9	134.0	109.8	79.1	53.6	43.4	42.1
60°	5231.1	1673.5	178.7	148.1	128.9	109.8	86.8	56.2	33.2	24.3	24.3
62.5°	4620.9	1242.0	155.7	123.8	108.5	88.1	61.3	35.7	17.9	12.8	11.5
65°	3861.4	916.5	130.2	104.7	90.6	68.9	43.4	21.7	8.9	3.8	2.6
67.5°	2694.7	565.5	108.5	85.5	74.0	49.8	26.8	8.9	3.8	0.0	0.0
70°	1224.2	269.3	83.0	65.1	56.2	35.7	14.0	5.1	2.6	0.0	0.0
72.5°	380.4	141.7	58.7	47.2	38.3	23.0	7.7	3.8	2.6	0.0	0.0
75°	176.2	90.6	37.0	25.5	21.7	11.5	5.1	2.6	1.3	0.0	0.0
77.5°	131.5	70.2	21.7	14.0	11.5	7.7	3.8	2.6	1.3	0.0	0.0
80°	114.9	35.7	12.8	8.9	6.4	5.1	2.6	1.3	0.0	0.0	0.0
82.5°	103.4	17.9	7.7	5.1	3.8	2.6	1.3	1.3	0.0	0.0	0.0
85°	56.2	10.2	5.1	3.8	2.6	1.3	1.3	0.0	0.0	0.0	0.0
87.5°	10.2	5.1	3.8	2.6	2.6	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)