

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: P529167

Luminaire Tested: **GALN-SA4B-740-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529167
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-740-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13139 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

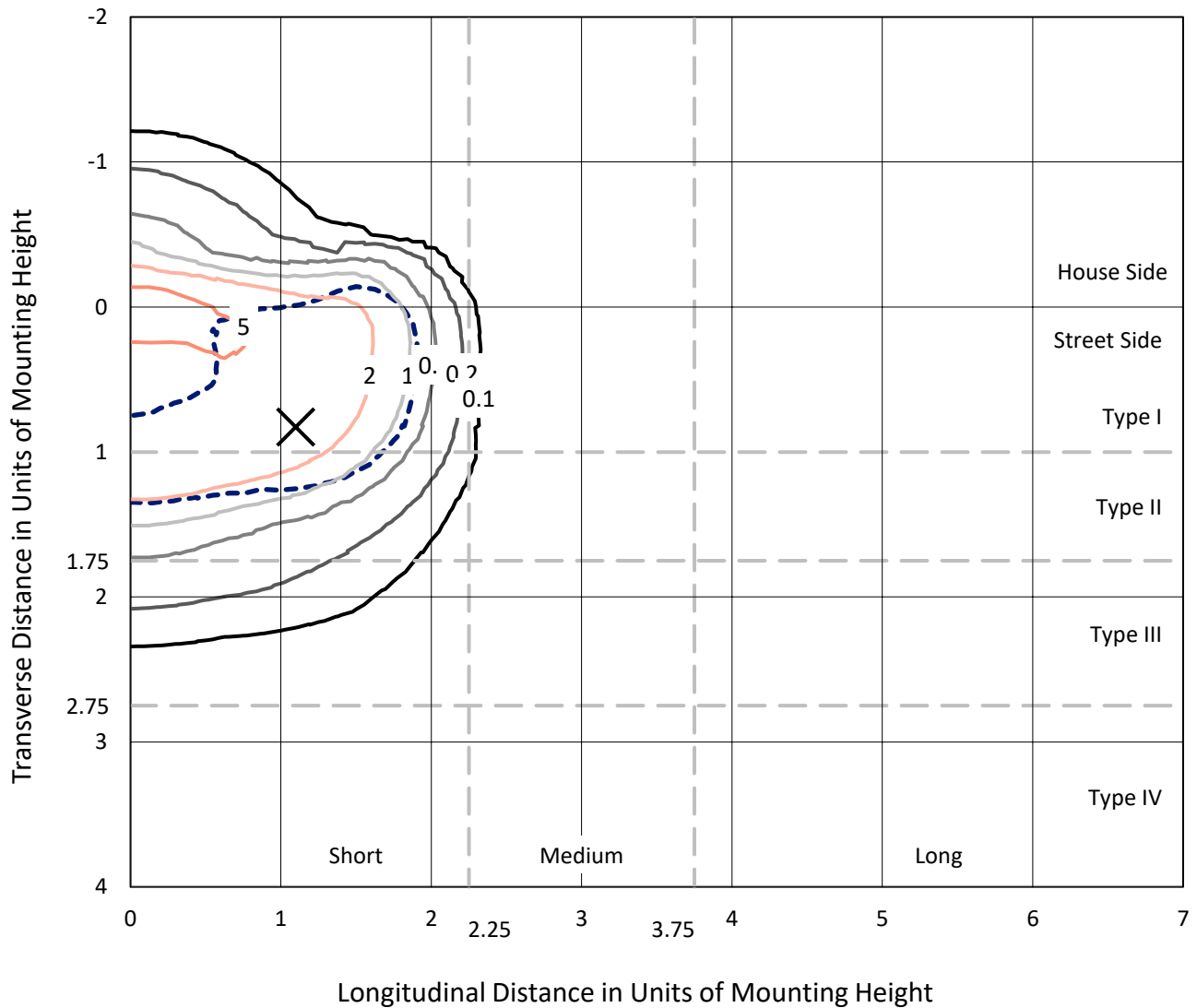
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

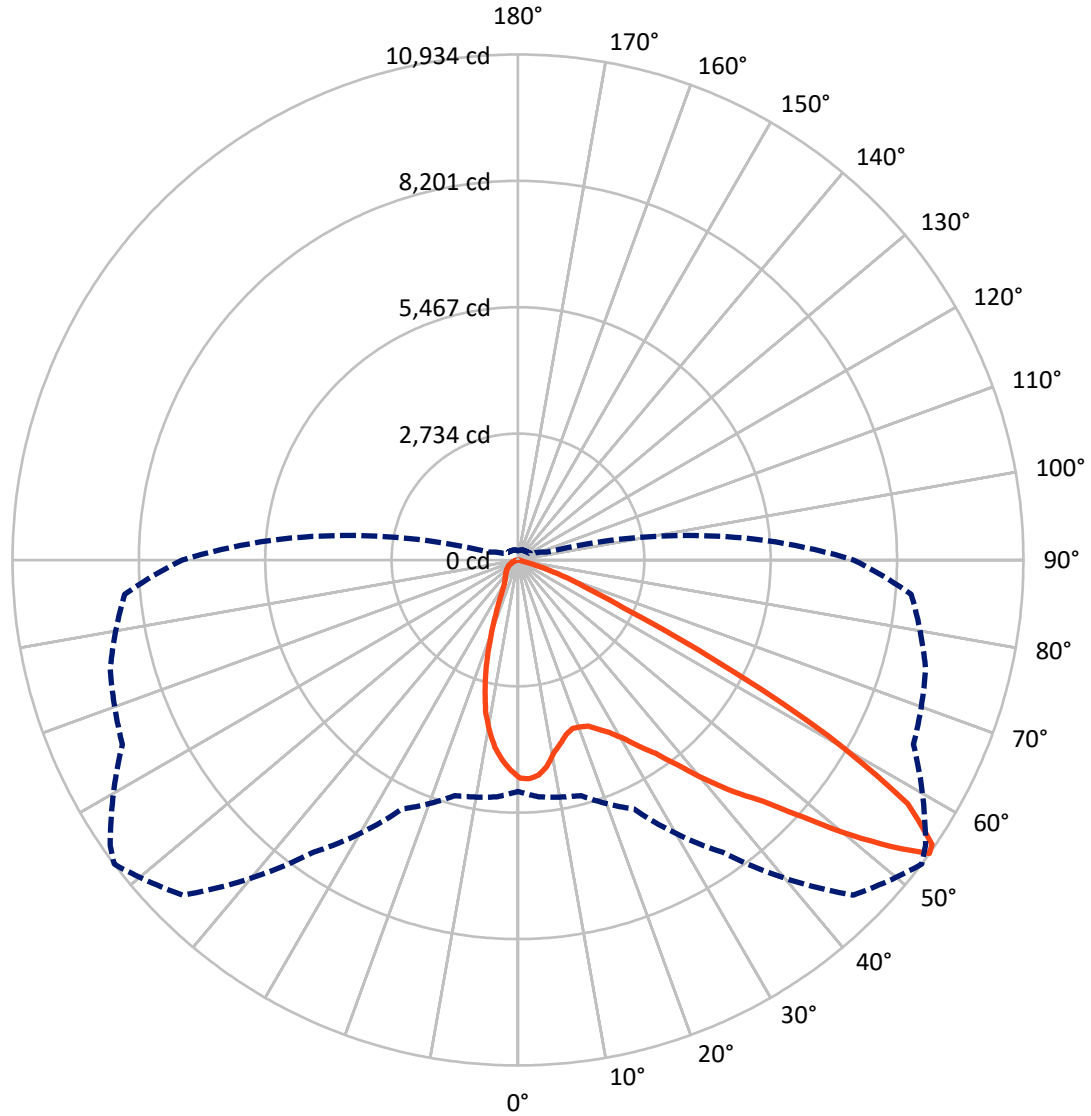
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2173.9	0.0	2173.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	10965.1	0.0	10965.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	13139.0	0.0	13139.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.9	3.1
10°-20°	928.3	7.1
20°-30°	1319.3	10.0
30°-40°	2036.1	15.5
40°-50°	3192.4	24.3
50°-60°	3708.4	28.2
60°-70°	1401.3	10.7
70°-80°	133.3	1.0
80°-90°	15.0	0.1
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°	13139.0	100.0
0°-180°	13139.0	100.0

Coefficient of Utilization



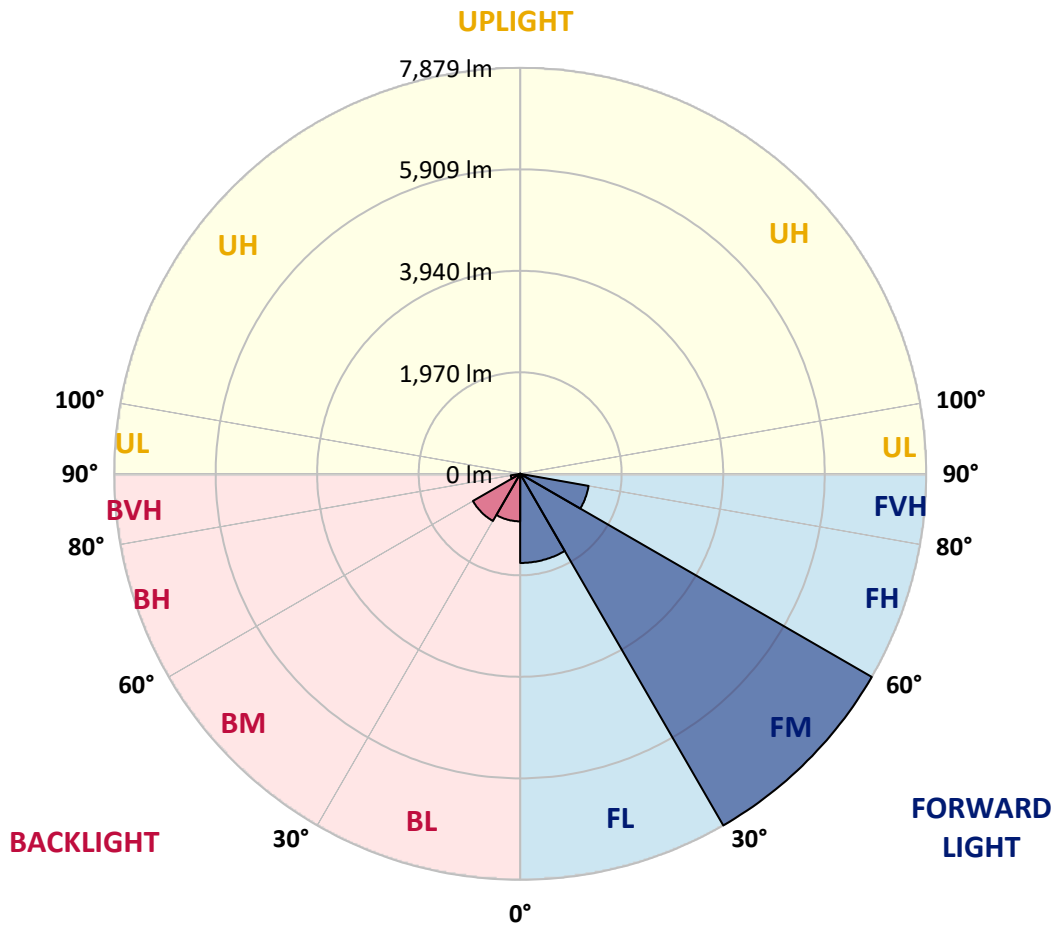
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1730.1	13.2			
FM (30°-60°)	7879.0	60.0			
FH (60°-80°)	1348.3	10.3			G1/1800
FVH (80°-90°)	7.7	0.1			G0/10
BL (0°-30°)	922.5	7.0	B2/1000		
BM (30°-60°)	1057.9	8.1	B2/2500		
BH (60°-80°)	186.3	1.4	B1/500		G1/500
BVH (80°-90°)	7.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4719.3	4719.3	4719.3	4719.3	4719.3	4719.3	4719.3	4719.3	4719.3	4719.3	4719.3
2.5°	4694.8	4653.2	4694.8	4699.7	4729.1	4756.0	4738.9	4778.1	4756.0	4731.5	4724.2
5°	4315.4	4371.7	4374.2	4462.3	4442.7	4604.3	4675.2	4655.7	4775.6	4768.3	4751.1
7.5°	3975.2	3953.2	3982.5	4085.3	4215.1	4401.1	4503.9	4501.5	4672.8	4795.2	4782.9
10°	3659.4	3657.0	3718.2	3798.9	3909.1	4104.9	4246.9	4317.9	4584.7	4770.7	4797.6
12.5°	3446.5	3436.7	3502.8	3568.9	3742.6	3894.4	4075.5	4109.8	4415.8	4685.0	4729.1
15°	3306.9	3329.0	3333.9	3461.2	3571.3	3772.0	3914.0	3985.0	4337.5	4616.5	4785.4
17.5°	3282.5	3311.8	3314.3	3419.5	3537.0	3705.9	3830.8	3926.2	4271.4	4650.8	4787.8
20°	3331.4	3314.3	3329.0	3395.1	3510.1	3671.7	3852.8	3884.6	4249.3	4667.9	4814.8
22.5°	3470.9	3466.0	3429.3	3483.2	3564.0	3732.9	3904.2	3953.2	4313.0	4756.0	4836.8
25°	3625.2	3652.1	3617.8	3610.5	3666.8	3833.2	4060.9	4124.5	4525.9	4915.1	4905.3
27.5°	3914.0	3887.1	3887.1	3852.8	3838.1	3918.9	4229.8	4335.0	4763.4	5120.7	4983.7
30°	4190.6	4220.0	4197.9	4210.2	4112.3	4104.9	4469.6	4599.4	5184.4	5434.1	5150.1
32.5°	4628.7	4589.6	4626.3	4594.5	4464.7	4332.6	4795.2	4929.8	5693.5	5793.9	5399.8
35°	4993.5	4976.3	5133.0	5128.1	4917.6	4787.8	5140.3	5341.0	6048.4	6224.7	5693.5
37.5°	5512.4	5480.6	5659.3	5744.9	5556.4	5363.1	5634.8	5867.3	6378.9	6569.8	5994.6
40°	6046.0	6126.8	6366.7	6508.6	6307.9	6050.9	6239.4	6310.4	6599.2	6795.0	6200.2
42.5°	6721.6	6839.1	7083.9	7206.2	7189.1	6910.1	6853.8	6851.3	6758.3	6731.4	6352.0
45°	7370.2	7326.2	7703.1	7970.0	8185.4	8104.6	7446.1	7372.7	7010.4	6826.8	6391.1
47.5°	7654.2	7639.5	7896.5	8371.4	9105.7	9206.1	8307.7	8023.8	7436.3	7228.3	6604.1
50°	7287.0	7362.9	7617.5	8143.7	9269.7	10035.9	9365.2	8983.3	7933.2	7717.8	7108.3
52.5°	6087.6	6139.0	6381.3	7049.6	8711.6	10525.4	10378.6	10158.3	8846.3	8488.9	7987.1
54°	5005.7	5142.8	5275.0	5945.6	7717.8	10253.7	10934.2	10765.3	9441.1	9130.2	8540.3
55°	4359.5	4440.3	4535.7	5204.0	7030.0	9793.5	10870.6	10885.2	9840.0	9330.9	8912.3
57.5°	3184.6	3240.9	3142.9	3439.1	4827.0	7952.8	9942.9	10339.4	10378.6	9632.0	9140.0
60°	2433.1	2457.6	2347.4	2393.9	3001.0	5458.5	7690.9	8168.2	9362.7	8417.9	7742.3
62.5°	1887.2	1892.1	1889.7	1970.5	2068.4	3211.5	4809.9	5233.3	6454.8	5977.5	5257.8
65°	1390.3	1368.3	1407.5	1652.2	1764.8	2019.4	2533.4	2841.9	3507.7	2961.8	2117.3
67.5°	900.8	908.1	947.3	1228.8	1512.7	1549.4	1559.2	1534.8	1537.2	846.9	531.2
70°	541.0	553.2	541.0	695.2	1081.9	1111.3	1015.8	991.3	773.5	200.7	198.3
72.5°	320.7	303.5	271.7	298.6	450.4	538.5	484.7	482.2	303.5	117.5	117.5
75°	134.6	122.4	100.4	90.6	119.9	115.0	115.0	102.8	80.8	78.3	73.4
77.5°	26.9	26.9	19.6	22.0	29.4	34.3	41.6	41.6	49.0	49.0	46.5
80°	0.0	2.4	7.3	14.7	22.0	31.8	36.7	36.7	41.6	41.6	34.3
82.5°	0.0	2.4	7.3	14.7	19.6	29.4	36.7	36.7	41.6	44.1	36.7
85°	0.0	2.4	7.3	12.2	19.6	24.5	24.5	22.0	17.1	14.7	9.8
87.5°	0.0	0.0	2.4	4.9	2.4	4.9	4.9	4.9	4.9	4.9	4.9
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°	4719.3	4719.3	4719.3	4719.3	4719.3	4719.3	4719.3	4719.3	4719.3	4719.3	4719.3
2.5°	4741.3	4738.9	4680.1	4584.7	4562.6	4481.9	4472.1	4423.1	4450.1	4359.5	4349.7
5°	4702.2	4672.8	4601.8	4540.6	4361.9	4234.6	4134.3	4011.9	3940.9	3953.2	3906.6
7.5°	4758.5	4682.6	4557.8	4344.8	4126.9	3904.2	3784.3	3534.6	3444.0	3309.4	3289.8
10°	4699.7	4643.4	4450.1	4097.6	3796.5	3475.8	3194.3	2917.7	2707.2	2616.7	2597.1
12.5°	4694.8	4596.9	4273.8	3882.2	3446.5	2986.3	2577.5	2232.4	2024.3	1906.8	1879.9
15°	4618.9	4501.5	4075.5	3549.3	2947.1	2374.3	1928.8	1595.9	1436.8	1368.3	1387.9
17.5°	4626.3	4450.1	3877.3	3196.8	2455.1	1742.8	1316.9	1145.6	1103.9	1121.1	1121.1
20°	4618.9	4335.0	3637.4	2790.5	1879.9	1209.2	966.9	905.7	932.6	986.5	974.2
22.5°	4579.8	4281.2	3417.1	2362.1	1383.0	895.9	775.9	778.4	820.0	886.1	900.8
25°	4609.2	4161.2	3138.0	1928.8	1008.5	714.7	673.1	690.3	734.3	783.3	793.1
27.5°	4587.1	4075.5	2846.8	1498.0	736.8	614.4	611.9	631.5	651.1	687.8	687.8
30°	4611.6	3997.2	2560.4	1113.7	607.0	563.0	553.2	567.9	587.5	594.8	592.4
32.5°	4702.2	3938.5	2229.9	832.2	536.1	514.0	514.0	514.0	511.6	521.4	523.8
35°	4900.4	3948.3	1938.6	643.8	489.6	472.4	465.1	455.3	450.4	455.3	457.7
37.5°	5115.8	3943.4	1637.6	548.3	455.3	440.6	423.5	408.8	406.3	411.2	403.9
40°	5211.3	3989.9	1358.5	492.0	423.5	406.3	379.4	367.2	369.6	374.5	369.6
42.5°	5341.0	4004.6	1177.4	447.9	394.1	367.2	350.0	335.3	332.9	340.2	337.8
45°	5338.6	3921.3	986.5	423.5	367.2	337.8	315.8	303.5	303.5	308.4	310.9
47.5°	5495.3	3909.1	846.9	401.4	347.6	318.2	291.3	281.5	279.0	279.0	274.2
50°	5860.0	4080.4	739.2	377.0	323.1	296.2	274.2	261.9	252.1	247.2	244.8
52.5°	6572.3	4614.1	656.0	347.6	296.2	274.2	254.6	244.8	232.5	220.3	217.9
54°	7262.5	5164.8	651.1	323.1	274.2	259.5	242.3	237.4	222.7	205.6	200.7
55°	7573.4	5485.5	668.2	303.5	259.5	249.7	235.0	230.1	215.4	195.8	193.4
57.5°	7830.4	5610.3	658.5	252.1	235.0	232.5	220.3	213.0	195.8	168.9	164.0
60°	6303.0	4242.0	472.4	222.7	215.4	210.5	200.7	195.8	173.8	144.4	142.0
62.5°	3982.5	2440.4	301.1	195.8	188.5	181.1	168.9	164.0	144.4	115.0	107.7
65°	1696.3	1010.9	203.2	173.8	161.6	149.3	139.5	132.2	115.0	85.7	83.2
67.5°	440.6	359.8	168.9	151.8	134.6	117.5	110.1	97.9	78.3	58.7	56.3
70°	198.3	181.1	142.0	127.3	107.7	90.6	80.8	68.5	51.4	39.2	36.7
72.5°	117.5	115.0	107.7	95.5	80.8	68.5	58.7	46.5	34.3	22.0	22.0
75°	73.4	71.0	73.4	66.1	56.3	51.4	44.1	31.8	19.6	9.8	9.8
77.5°	44.1	44.1	44.1	41.6	39.2	39.2	31.8	19.6	9.8	2.4	2.4
80°	34.3	34.3	36.7	34.3	34.3	34.3	26.9	14.7	4.9	0.0	0.0
82.5°	34.3	36.7	41.6	39.2	34.3	29.4	24.5	14.7	4.9	0.0	0.0
85°	9.8	7.3	12.2	17.1	24.5	22.0	17.1	12.2	4.9	0.0	0.0
87.5°	4.9	4.9	4.9	4.9	2.4	2.4	2.4	2.4	2.4	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)