

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: P529557

Luminaire Tested: **GALN-SA4D-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529557
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-SA4D-727-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA 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: 14939 lumens
Efficiency: N/A
Efficacy: 61.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

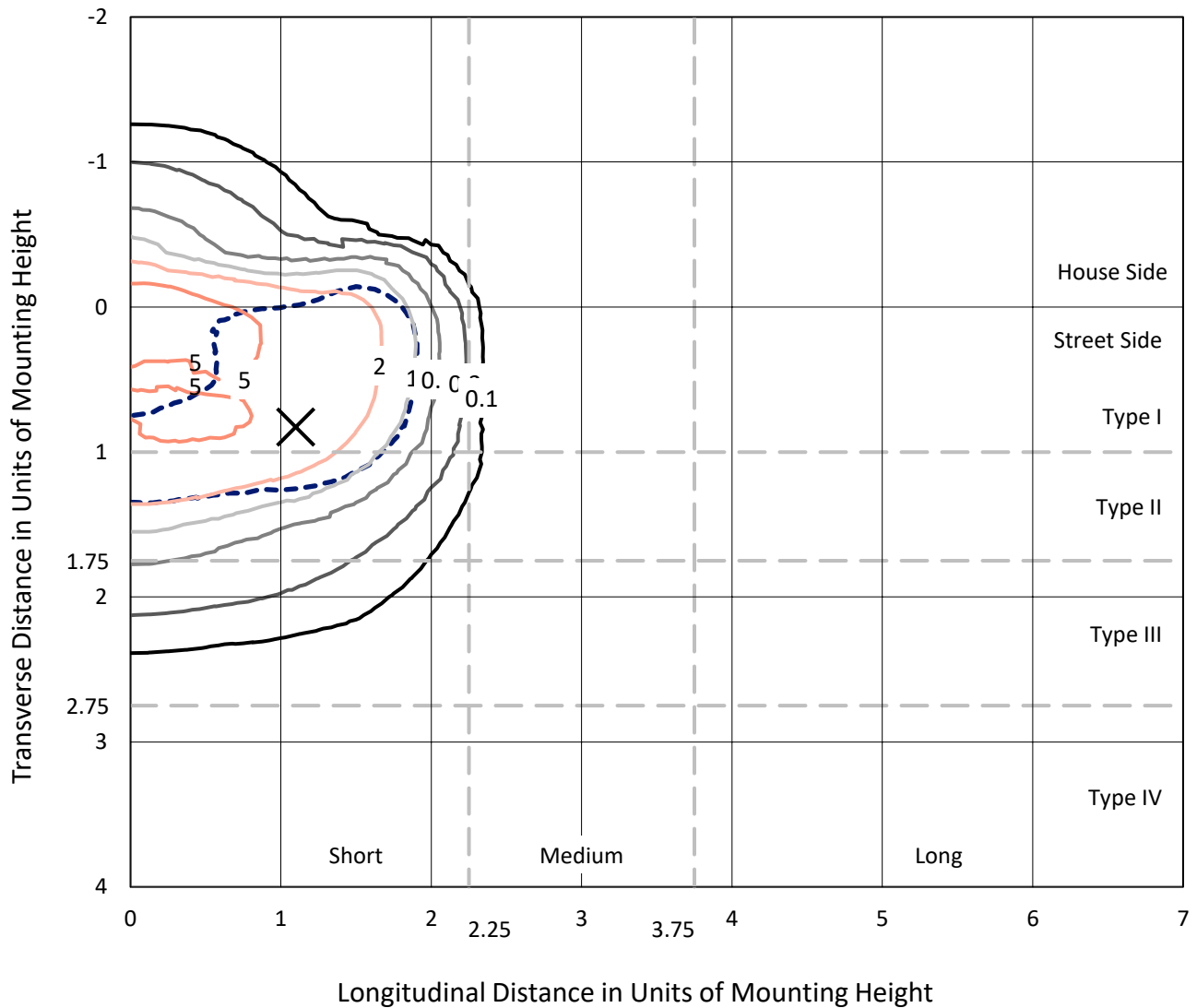
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

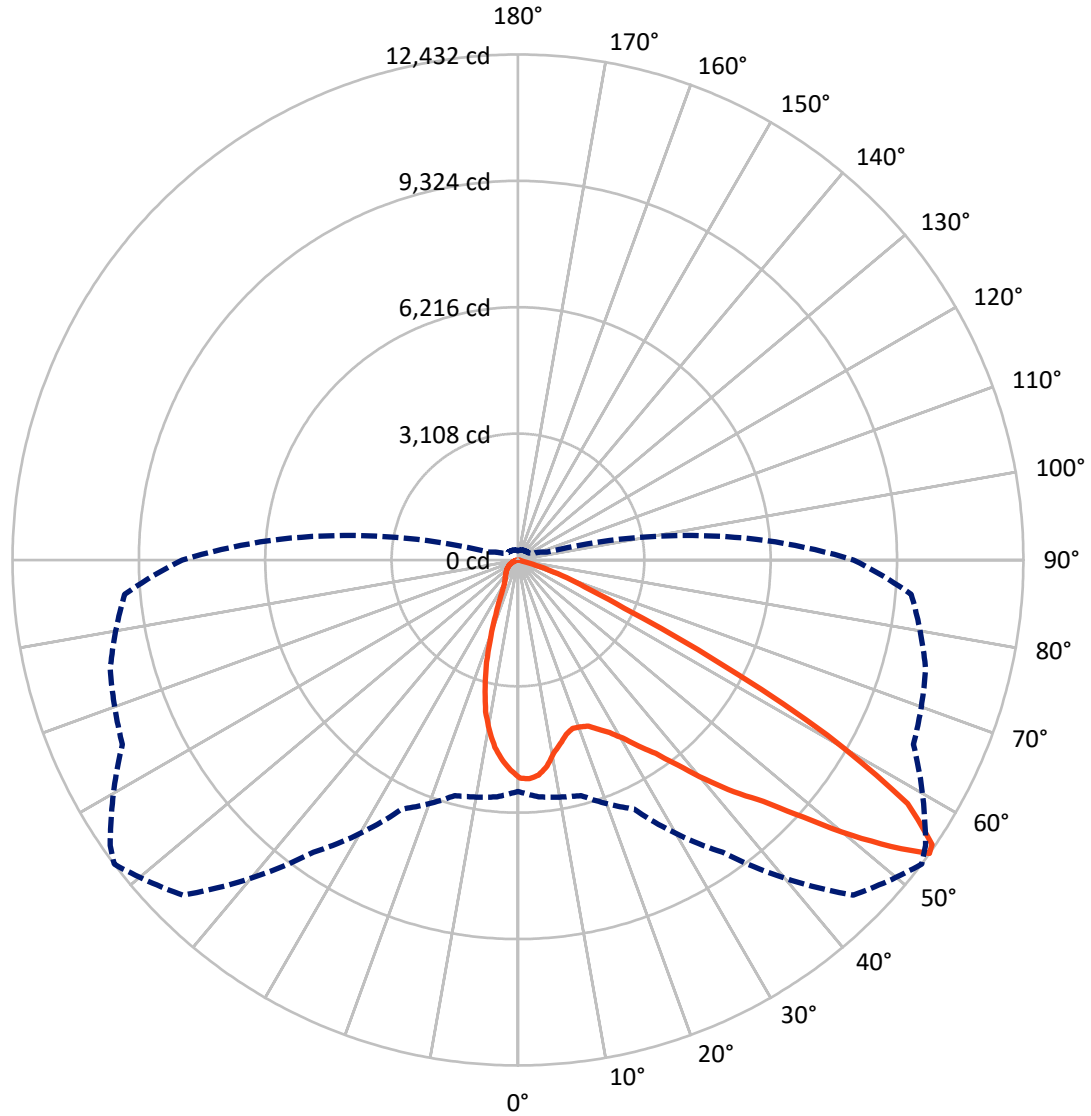
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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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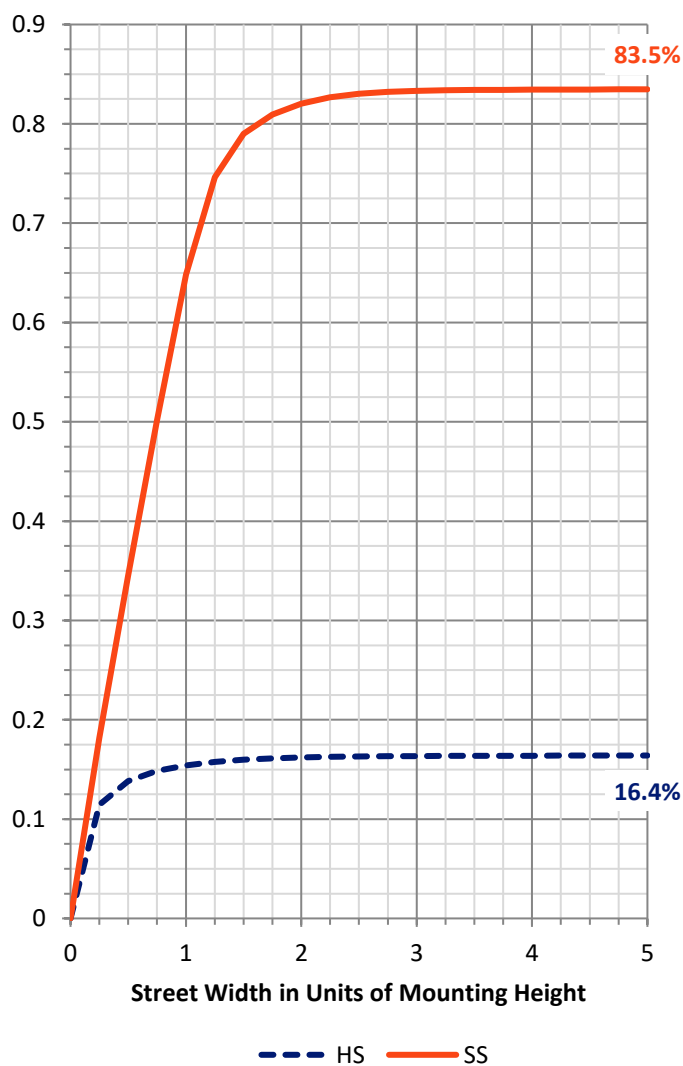
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2471.7	0.0	2471.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	12467.3	0.0	12467.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	14939.0	0.0	14939.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.4	3.1
10°-20°	1055.5	7.1
20°-30°	1500.1	10.0
30°-40°	2315.0	15.5
40°-50°	3629.8	24.3
50°-60°	4216.5	28.2
60°-70°	1593.2	10.7
70°-80°	151.5	1.0
80°-90°	17.1	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°	14939.0	100.0
0°-180°	14939.0	100.0

Coefficient of Utilization



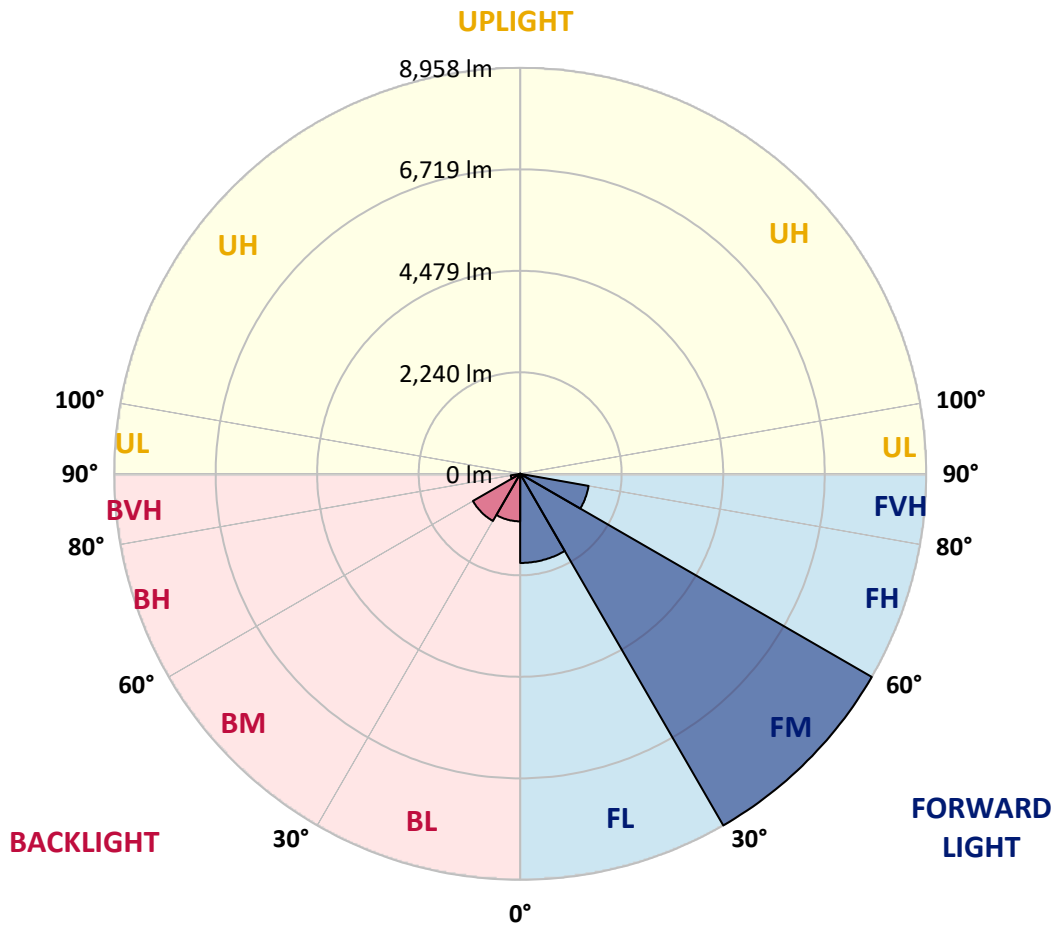
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1967.1	13.2			
FM (30°-60°)	8958.4	60.0			
FH (60°-80°)	1533.0	10.3			G1/1800
FVH (80°-90°)	8.8	0.1			G0/10
BL (0°-30°)	1048.9	7.0	B3/2500		
BM (30°-60°)	1202.8	8.1	B2/2500		
BH (60°-80°)	211.8	1.4	B1/500		G1/500
BVH (80°-90°)	8.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5365.8	5365.8	5365.8	5365.8	5365.8	5365.8	5365.8	5365.8	5365.8	5365.8	5365.8
2.5°	5338.0	5290.7	5338.0	5343.6	5377.0	5407.6	5388.1	5432.6	5407.6	5379.8	5371.4
5°	4906.6	4970.6	4973.4	5073.6	5051.3	5235.0	5315.7	5293.5	5429.8	5421.5	5402.0
7.5°	4519.8	4494.7	4528.1	4645.0	4792.5	5004.0	5120.9	5118.1	5313.0	5452.1	5438.2
10°	4160.8	4158.0	4227.5	4319.4	4444.6	4667.3	4828.7	4909.4	5212.8	5424.3	5454.9
12.5°	3918.6	3907.5	3982.6	4057.8	4255.4	4427.9	4633.9	4672.8	5020.7	5326.9	5377.0
15°	3760.0	3785.0	3790.6	3935.3	4060.6	4288.8	4450.2	4530.9	4931.7	5248.9	5441.0
17.5°	3732.2	3765.5	3768.3	3888.0	4021.6	4213.6	4355.6	4464.1	4856.5	5287.9	5443.8
20°	3787.8	3768.3	3785.0	3860.2	3991.0	4174.7	4380.6	4416.8	4831.5	5307.4	5474.4
22.5°	3946.5	3940.9	3899.1	3960.4	4052.2	4244.2	4439.1	4494.7	4903.8	5407.6	5499.4
25°	4121.8	4152.4	4113.4	4105.1	4169.1	4358.4	4617.2	4689.5	5146.0	5588.5	5577.4
27.5°	4450.2	4419.6	4419.6	4380.6	4363.9	4455.8	4809.2	4928.9	5415.9	5822.3	5666.4
30°	4764.7	4798.1	4773.0	4786.9	4675.6	4667.3	5082.0	5229.5	5894.6	6178.5	5855.7
32.5°	5262.9	5218.3	5260.1	5223.9	5076.4	4926.1	5452.1	5605.2	6473.5	6587.6	6139.5
35°	5677.5	5658.1	5836.2	5830.6	5591.3	5443.8	5844.5	6072.7	6877.1	7077.4	6473.5
37.5°	6267.6	6231.4	6434.6	6532.0	6317.7	6097.8	6406.7	6671.1	7252.8	7469.9	6815.8
40°	6874.3	6966.1	7238.9	7400.3	7172.1	6879.8	7094.1	7174.9	7503.3	7725.9	7049.6
42.5°	7642.4	7776.0	8054.3	8193.5	8174.0	7856.7	7792.7	7789.9	7684.2	7653.6	7222.2
45°	8379.9	8329.8	8758.4	9061.8	9306.7	9214.9	8466.2	8382.7	7970.8	7762.1	7266.7
47.5°	8702.8	8686.1	8978.3	9518.2	10353.2	10467.3	9445.9	9123.0	8455.1	8218.5	7508.8
50°	8285.3	8371.6	8661.0	9259.4	10539.6	11410.8	10648.2	10214.0	9020.1	8775.1	8082.2
52.5°	6921.6	6980.0	7255.6	8015.4	9905.1	11967.4	11800.4	11549.9	10058.2	9651.8	9081.3
54°	5691.5	5847.3	5997.6	6760.2	8775.1	11658.4	12432.2	12240.1	10734.5	10381.0	9710.3
55°	4956.7	5048.6	5157.1	5916.9	7993.1	11135.2	12359.8	12376.5	11188.1	10609.2	10133.3
57.5°	3620.8	3684.8	3573.5	3910.3	5488.3	9042.3	11305.0	11755.9	11800.4	10951.5	10392.1
60°	2766.4	2794.2	2669.0	2721.9	3412.1	6206.3	8744.5	9287.2	10645.4	9571.1	8803.0
62.5°	2145.8	2151.3	2148.6	2240.4	2351.7	3651.4	5468.8	5950.3	7339.1	6796.4	5978.1
65°	1580.8	1555.8	1600.3	1878.6	2006.6	2296.1	2880.5	3231.2	3988.2	3367.6	2407.4
67.5°	1024.2	1032.5	1077.1	1397.1	1720.0	1761.7	1772.8	1745.0	1747.8	963.0	603.9
70°	615.1	629.0	615.1	790.4	1230.1	1263.5	1155.0	1127.2	879.5	228.2	225.4
72.5°	364.6	345.1	308.9	339.5	512.1	612.3	551.1	548.3	345.1	133.6	133.6
75°	153.1	139.2	114.1	103.0	136.4	130.8	130.8	116.9	91.8	89.1	83.5
77.5°	30.6	30.6	22.3	25.0	33.4	39.0	47.3	47.3	55.7	55.7	52.9
80°	0.0	2.8	8.3	16.7	25.0	36.2	41.7	41.7	47.3	47.3	39.0
82.5°	0.0	2.8	8.3	16.7	22.3	33.4	41.7	41.7	47.3	50.1	41.7
85°	0.0	2.8	8.3	13.9	22.3	27.8	27.8	25.0	19.5	16.7	11.1
87.5°	0.0	0.0	2.8	5.6	2.8	5.6	5.6	5.6	5.6	5.6	5.6
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°	5365.8	5365.8	5365.8	5365.8	5365.8	5365.8	5365.8	5365.8	5365.8	5365.8	5365.8
2.5°	5390.9	5388.1	5321.3	5212.8	5187.7	5095.9	5084.7	5029.1	5059.7	4956.7	4945.6
5°	5346.4	5313.0	5232.2	5162.7	4959.5	4814.8	4700.7	4561.5	4480.8	4494.7	4441.8
7.5°	5410.4	5324.1	5182.2	4940.0	4692.3	4439.1	4302.7	4018.8	3915.8	3762.8	3740.5
10°	5343.6	5279.6	5059.7	4658.9	4316.6	3952.0	3632.0	3317.5	3078.1	2975.1	2952.9
12.5°	5338.0	5226.7	4859.3	4414.0	3918.6	3395.4	2930.6	2538.2	2301.6	2168.0	2137.4
15°	5251.7	5118.1	4633.9	4035.5	3350.9	2699.6	2193.1	1814.6	1633.7	1555.8	1578.0
17.5°	5260.1	5059.7	4408.4	3634.7	2791.5	1981.6	1497.3	1302.5	1255.2	1274.7	1274.7
20°	5251.7	4928.9	4135.7	3172.7	2137.4	1374.9	1099.3	1029.8	1060.4	1121.6	1107.7
22.5°	5207.2	4867.7	3885.2	2685.7	1572.5	1018.6	882.2	885.0	932.3	1007.5	1024.2
25°	5240.6	4731.3	3567.9	2193.1	1146.6	812.7	765.4	784.8	834.9	890.6	901.7
27.5°	5215.5	4633.9	3236.8	1703.3	837.7	698.6	695.8	718.0	740.3	782.1	782.1
30°	5243.4	4544.8	2911.1	1266.3	690.2	640.1	629.0	645.7	667.9	676.3	673.5
32.5°	5346.4	4478.0	2535.4	946.3	609.5	584.5	584.5	584.5	581.7	592.8	595.6
35°	5571.8	4489.2	2204.2	732.0	556.6	537.1	528.8	517.7	512.1	517.7	520.4
37.5°	5816.7	4483.6	1861.9	623.4	517.7	501.0	481.5	464.8	462.0	467.6	459.2
40°	5925.2	4536.5	1544.6	559.4	481.5	462.0	431.4	417.5	420.2	425.8	420.2
42.5°	6072.7	4553.2	1338.7	509.3	448.1	417.5	398.0	381.3	378.5	386.9	384.1
45°	6070.0	4458.5	1121.6	481.5	417.5	384.1	359.0	345.1	345.1	350.7	353.5
47.5°	6248.1	4444.6	963.0	456.4	395.2	361.8	331.2	320.1	317.3	317.3	311.7
50°	6662.8	4639.4	840.5	428.6	367.4	336.8	311.7	297.8	286.7	281.1	278.3
52.5°	7472.7	5246.2	745.9	395.2	336.8	311.7	289.4	278.3	264.4	250.5	247.7
54°	8257.5	5872.4	740.3	367.4	311.7	295.0	275.5	270.0	253.3	233.8	228.2
55°	8610.9	6237.0	759.8	345.1	295.0	283.9	267.2	261.6	244.9	222.6	219.9
57.5°	8903.2	6378.9	748.7	286.7	267.2	264.4	250.5	242.1	222.6	192.0	186.5
60°	7166.5	4823.1	537.1	253.3	244.9	239.3	228.2	222.6	197.6	164.2	161.4
62.5°	4528.1	2774.8	342.3	222.6	214.3	206.0	192.0	186.5	164.2	130.8	122.5
65°	1928.7	1149.4	231.0	197.6	183.7	169.8	158.6	150.3	130.8	97.4	94.6
67.5°	501.0	409.1	192.0	172.6	153.1	133.6	125.2	111.3	89.1	66.8	64.0
70°	225.4	206.0	161.4	144.7	122.5	103.0	91.8	77.9	58.4	44.5	41.7
72.5°	133.6	130.8	122.5	108.5	91.8	77.9	66.8	52.9	39.0	25.0	25.0
75°	83.5	80.7	83.5	75.1	64.0	58.4	50.1	36.2	22.3	11.1	11.1
77.5°	50.1	50.1	50.1	47.3	44.5	44.5	36.2	22.3	11.1	2.8	2.8
80°	39.0	39.0	41.7	39.0	39.0	39.0	30.6	16.7	5.6	0.0	0.0
82.5°	39.0	41.7	47.3	44.5	39.0	33.4	27.8	16.7	5.6	0.0	0.0
85°	11.1	8.3	13.9	19.5	27.8	25.0	19.5	13.9	5.6	0.0	0.0
87.5°	5.6	5.6	5.6	5.6	2.8	2.8	2.8	2.8	2.8	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)