

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P638312

Luminaire Tested: GWS-SA4E-750-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-750-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24664.8 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

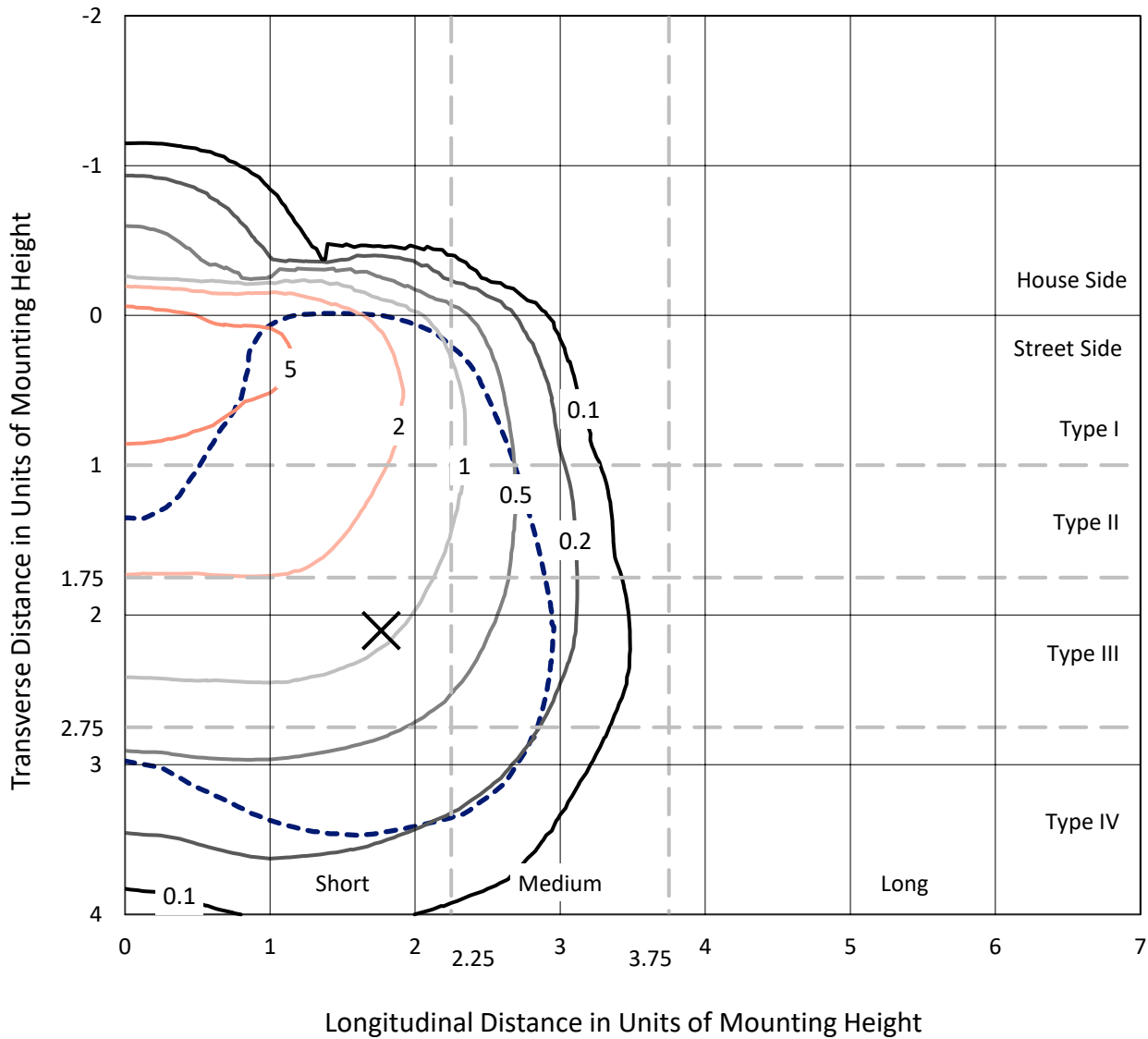
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

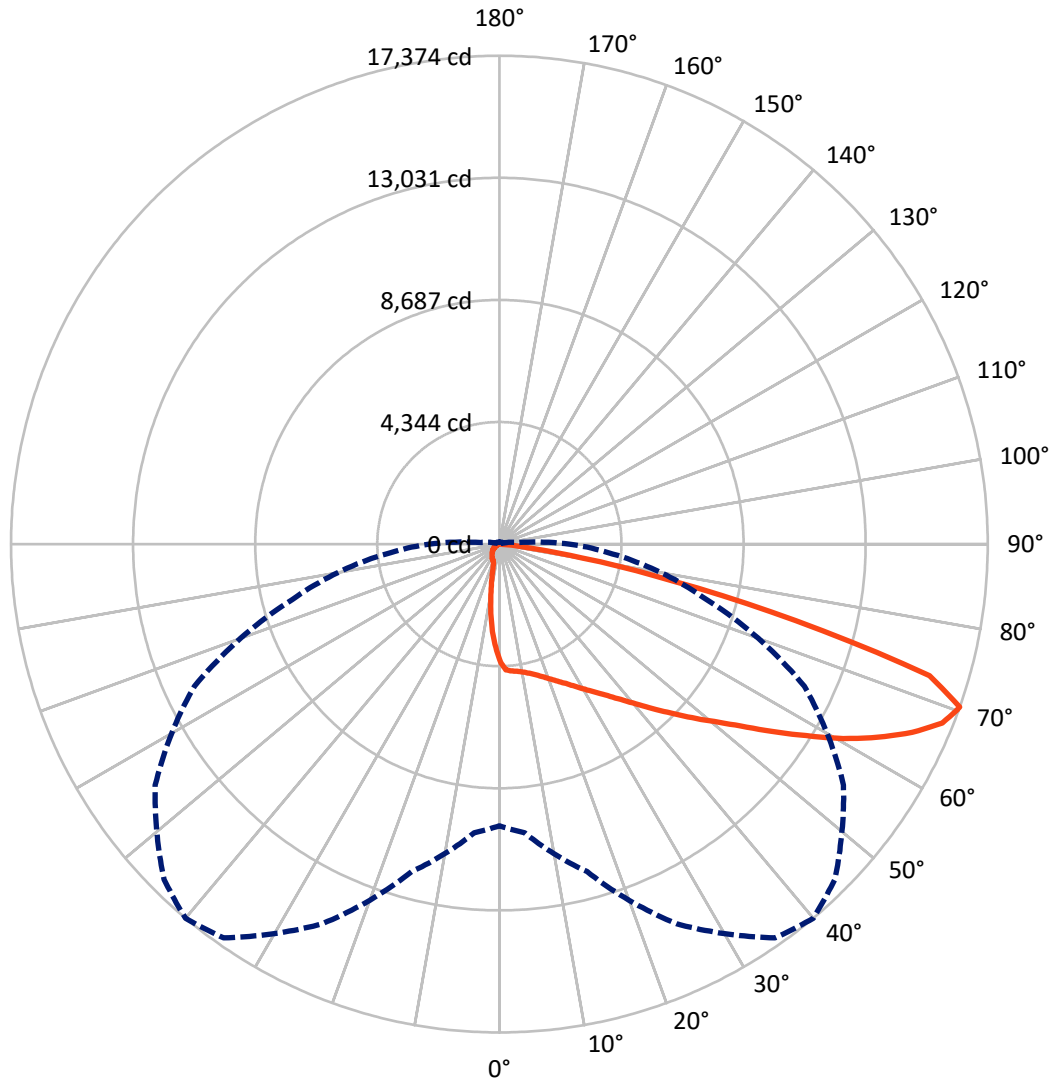
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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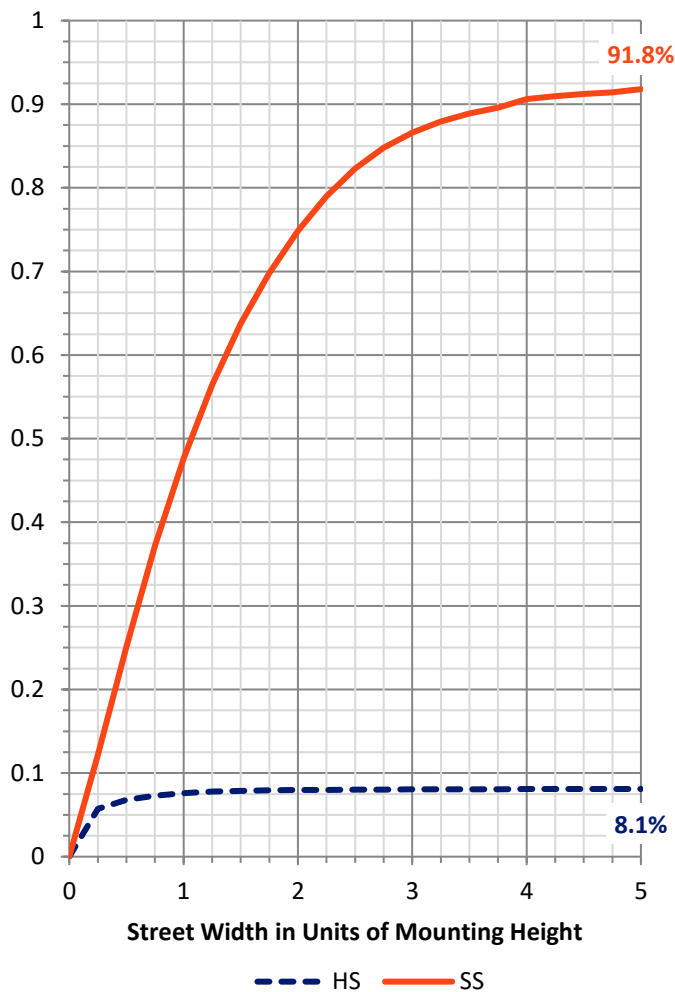
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2016.9	0.0	2016.9
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	22647.9	0.0	22647.9
	% Fixture	91.8	0.0	91.8
Total	Lumens	24664.8	0.0	24664.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.7	1.4
10°-20°	897.2	3.6
20°-30°	1501.6	6.1
30°-40°	2358.4	9.6
40°-50°	3730.4	15.1
50°-60°	5441.8	22.1
60°-70°	6745.9	27.4
70°-80°	3413.0	13.8
80°-90°	222.8	0.9
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°	24664.8	100.0
0°-180°	24664.8	100.0

Coefficient of Utilization



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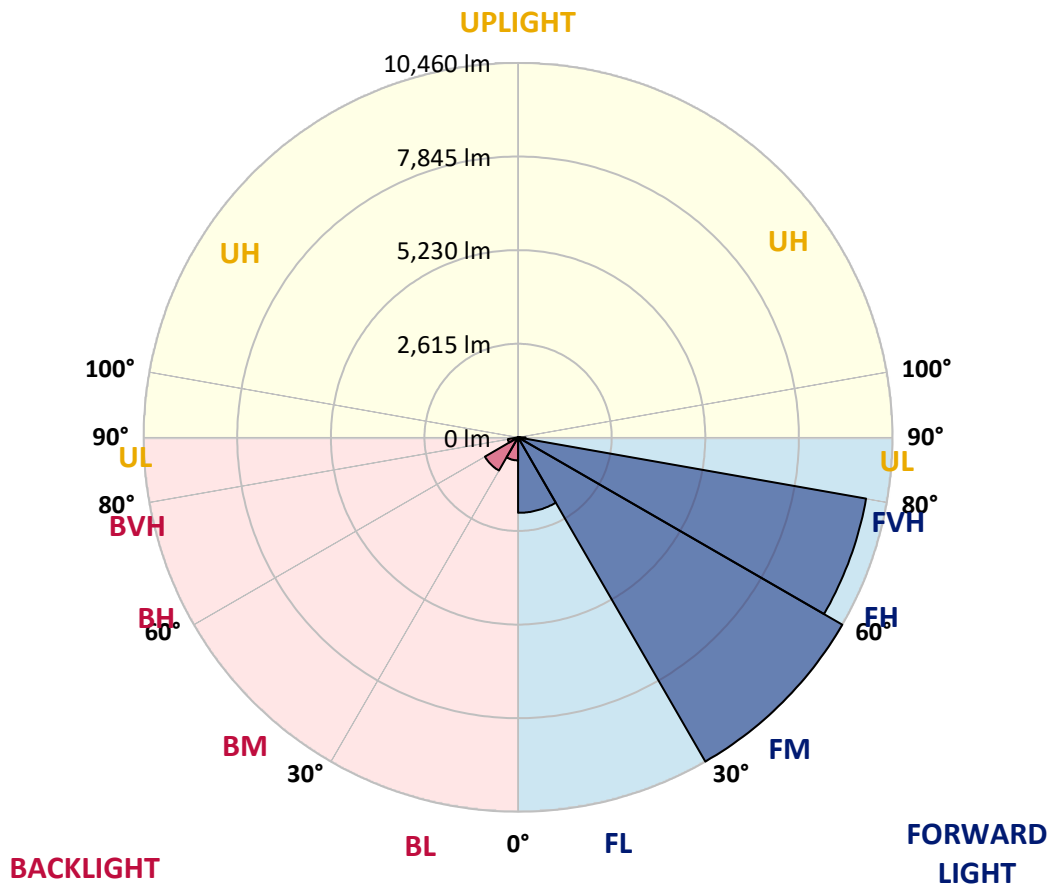
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2108.4	8.5			
FM (30°-60°)	10460.1	42.4			
FH (60°-80°)	9871.3	40.0			G4/12000
FVH (80°-90°)	208.1	0.8			G2/225
BL (0°-30°)	644.1	2.6	B2/1000		
BM (30°-60°)	1070.6	4.3	B2/2500		
BH (60°-80°)	287.6	1.2	B1/500		G1/500
BVH (80°-90°)	14.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4185.3	4185.3	4185.3	4185.3	4185.3	4185.3	4185.3	4185.3	4185.3	4185.3	4185.3
2.5°	4499.5	4515.2	4513.0	4519.7	4504.0	4479.3	4474.8	4441.2	4380.6	4304.3	4219.0
5°	4591.5	4609.5	4596.0	4589.3	4560.1	4533.2	4526.4	4490.5	4421.0	4317.7	4169.6
7.5°	4670.1	4674.5	4665.6	4649.9	4607.2	4571.3	4546.6	4497.3	4414.2	4311.0	4140.4
10°	4683.5	4681.3	4685.8	4688.0	4661.1	4629.7	4609.5	4542.1	4436.7	4326.7	4142.7
12.5°	4667.8	4667.8	4697.0	4730.6	4730.6	4714.9	4694.7	4634.1	4510.7	4380.6	4187.6
15°	4688.0	4694.7	4750.8	4813.7	4833.9	4818.2	4809.2	4746.4	4618.4	4474.8	4268.4
17.5°	4759.8	4766.6	4856.3	4950.6	4975.3	4957.3	4939.4	4876.5	4739.6	4582.5	4360.4
20°	4865.3	4883.2	4997.7	5118.9	5141.3	5118.9	5083.0	4995.5	4858.6	4699.2	4447.9
22.5°	5058.3	5069.5	5192.9	5320.9	5332.1	5296.2	5242.3	5121.1	4977.5	4822.7	4546.6
25°	5314.1	5329.8	5453.3	5576.7	5547.5	5493.7	5419.6	5282.7	5118.9	4968.5	4672.3
27.5°	5619.3	5637.3	5758.5	5866.2	5789.9	5727.0	5644.0	5473.5	5307.4	5170.5	4833.9
30°	5949.2	5964.9	6072.6	6169.1	6068.2	5994.1	5895.4	5720.3	5552.0	5448.8	5062.8
32.5°	6267.9	6265.6	6368.9	6447.4	6344.2	6285.8	6196.1	6018.8	5884.1	5839.3	5403.9
35°	6564.1	6564.1	6649.4	6727.9	6653.9	6622.5	6539.4	6398.0	6321.7	6375.6	5859.4
37.5°	6862.6	6846.9	6927.7	7015.2	7008.4	7010.7	6963.6	6896.2	6900.7	7091.5	6485.6
40°	7109.4	7102.7	7197.0	7311.4	7401.2	7473.0	7443.8	7468.5	7609.9	7966.7	7286.7
42.5°	7306.9	7322.6	7443.8	7625.6	7852.2	7998.1	8018.3	8119.3	8482.8	9034.9	8191.1
45°	7533.6	7535.8	7704.1	7982.4	8343.7	8574.9	8655.6	8916.0	9432.1	10143.5	9183.0
47.5°	7811.9	7784.9	7973.4	8363.9	8886.8	9227.9	9371.5	9696.9	10495.8	11225.2	9990.9
50°	8119.3	8069.9	8283.1	8815.0	9495.0	9921.3	10213.1	10688.8	11550.6	12113.9	10592.3
52.5°	8476.1	8429.0	8671.4	9333.4	10224.3	10742.7	11117.5	11597.7	12455.0	12791.6	10951.4
55°	8929.4	8882.3	9138.1	9955.0	11086.1	11759.3	12152.0	12556.0	13296.5	13292.0	11211.7
57.5°	9432.1	9367.0	9721.6	10740.5	12161.0	12861.2	13260.6	13458.1	13936.1	13680.3	11386.8
60°	10008.9	9950.5	10442.0	11676.3	13402.0	14050.6	14301.9	14221.1	14461.2	13909.2	11326.2
62.5°	10529.5	10502.6	11113.0	12668.2	14584.7	15132.2	15201.8	14849.5	14847.2	13913.7	10917.7
65°	11070.3	11122.0	12028.6	13810.4	15774.1	16142.1	16023.2	15473.3	15002.1	13363.9	9710.4
67.5°	11272.3	11422.7	12632.3	14842.7	16712.1	16999.4	16790.7	15785.3	14358.0	11514.7	7394.4
70°	10024.6	10307.3	12062.3	14901.1	17100.3	17374.1	16873.7	14946.0	11970.2	7627.8	4050.7
72.5°	7623.3	7953.2	10051.5	12201.4	15379.1	16003.0	15147.9	12176.7	7715.4	3341.5	1359.9
75°	4266.1	4622.9	7486.5	9187.5	10325.3	10895.3	10581.1	7811.9	3417.8	873.0	406.2
77.5°	1443.0	1561.9	3482.9	5684.4	6815.5	6303.8	5336.6	3880.1	1256.7	332.1	215.4
80°	855.0	899.9	1297.1	2829.9	3586.1	2973.5	2347.4	1434.0	639.6	177.3	150.4
82.5°	255.8	303.0	715.9	1050.3	1404.8	875.2	740.6	819.1	332.1	96.5	125.7
85°	0.0	0.0	152.6	325.4	368.0	143.6	143.6	464.5	60.6	40.4	92.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	11.2	6.7	9.0	20.2
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°	4185.3	4185.3	4185.3	4185.3	4185.3	4185.3	4185.3	4185.3	4185.3	4185.3	4185.3
2.5°	4158.4	4079.8	3987.8	3900.3	3817.3	3709.6	3657.9	3595.1	3541.3	3512.1	3527.8
5°	4075.4	3951.9	3763.4	3572.7	3379.7	3197.9	3034.1	2924.1	2825.4	2773.8	2785.0
7.5°	4003.5	3837.5	3543.5	3231.6	2921.9	2609.9	2356.3	2158.9	2006.3	1943.4	1932.2
10°	3972.1	3763.4	3348.3	2899.4	2423.7	2004.0	1645.0	1427.3	1272.4	1196.1	1209.6
12.5°	3987.8	3725.3	3182.2	2574.0	1956.9	1467.7	1124.3	920.1	810.1	765.3	754.0
15°	4032.7	3716.3	3034.1	2241.9	1510.3	1025.6	776.5	693.4	671.0	666.5	666.5
17.5°	4084.3	3718.5	2881.5	1905.3	1146.8	760.8	664.3	648.6	641.8	637.3	639.6
20°	4135.9	3718.5	2706.4	1564.2	861.7	657.5	632.8	621.6	614.9	612.7	612.7
22.5°	4198.8	3718.5	2511.2	1247.7	691.2	623.9	603.7	596.9	590.2	588.0	585.7
25°	4275.1	3720.8	2295.8	976.2	628.4	594.7	579.0	572.3	565.5	561.0	561.0
27.5°	4385.0	3738.7	2057.9	760.8	592.5	567.8	554.3	547.6	540.8	534.1	534.1
30°	4544.4	3783.6	1790.8	628.4	558.8	538.6	525.1	520.6	513.9	507.2	504.9
32.5°	4782.3	3862.2	1514.8	563.3	527.4	507.2	491.5	487.0	480.2	473.5	471.3
35°	5114.4	4005.8	1245.5	522.9	487.0	466.8	457.8	455.6	446.6	439.9	439.9
37.5°	5601.4	4239.2	987.4	482.5	453.3	437.6	426.4	421.9	412.9	406.2	403.9
40°	6196.1	4542.1	767.5	451.1	421.9	406.2	395.0	388.2	377.0	368.0	363.6
42.5°	6954.6	4912.4	605.9	417.4	392.7	377.0	368.0	354.6	338.9	325.4	323.2
45°	7744.5	5293.9	500.4	386.0	365.8	352.3	341.1	323.2	300.7	285.0	280.5
47.5°	8350.4	5531.8	437.6	352.3	336.6	325.4	311.9	289.5	262.6	244.6	240.1
50°	8783.6	5567.7	390.5	320.9	311.9	300.7	280.5	253.6	224.4	206.5	202.0
52.5°	8996.8	5406.1	352.3	291.7	285.0	273.8	249.1	219.9	188.5	170.6	166.1
55°	9093.3	5100.9	316.4	267.1	258.1	244.6	217.7	186.3	154.8	139.1	134.6
57.5°	9055.1	4649.9	285.0	242.4	231.1	215.4	186.3	152.6	127.9	112.2	110.0
60°	8772.3	4017.0	253.6	217.7	204.2	186.3	157.1	125.7	103.2	92.0	89.8
62.5°	8161.9	3231.6	222.2	188.5	179.5	161.6	134.6	103.2	85.3	78.5	76.3
65°	6912.0	2284.5	190.8	159.3	154.8	136.9	112.2	85.3	74.1	69.6	67.3
67.5°	4968.5	1389.1	161.6	136.9	132.4	116.7	94.3	74.1	67.3	65.1	65.1
70°	2497.7	657.5	127.9	112.2	112.2	96.5	80.8	67.3	65.1	62.8	62.8
72.5°	848.3	280.5	96.5	87.5	92.0	83.0	69.6	62.8	62.8	62.8	62.8
75°	289.5	148.1	67.3	62.8	67.3	67.3	60.6	60.6	62.8	62.8	62.8
77.5°	188.5	98.7	47.1	42.6	51.6	51.6	51.6	56.1	60.6	60.6	60.6
80°	154.8	53.9	31.4	29.2	38.2	38.2	42.6	51.6	56.1	56.1	56.1
82.5°	132.4	33.7	18.0	20.2	26.9	29.2	35.9	42.6	49.4	51.6	51.6
85°	89.8	18.0	13.5	15.7	18.0	22.4	29.2	35.9	40.4	44.9	44.9
87.5°	24.7	6.7	9.0	11.2	11.2	15.7	22.4	26.9	31.4	33.7	33.7
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)