

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: P638255

Luminaire Tested: GWS-SA4E-740-U-SL3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638255
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-740-U-SL3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24785.7 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

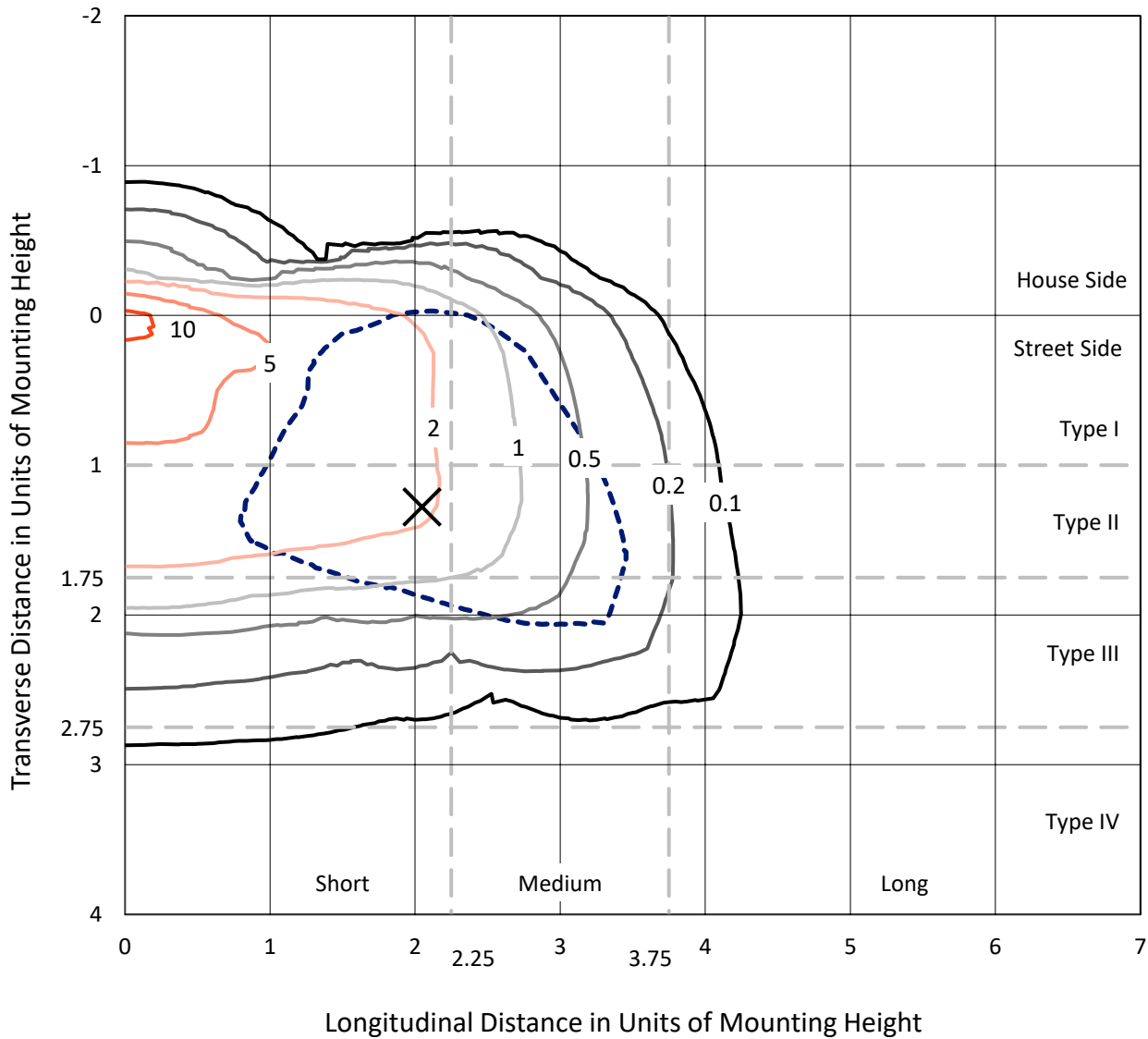
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638255
 CATALOG NUMBER: GWS-SA4E-740-U-SL3-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

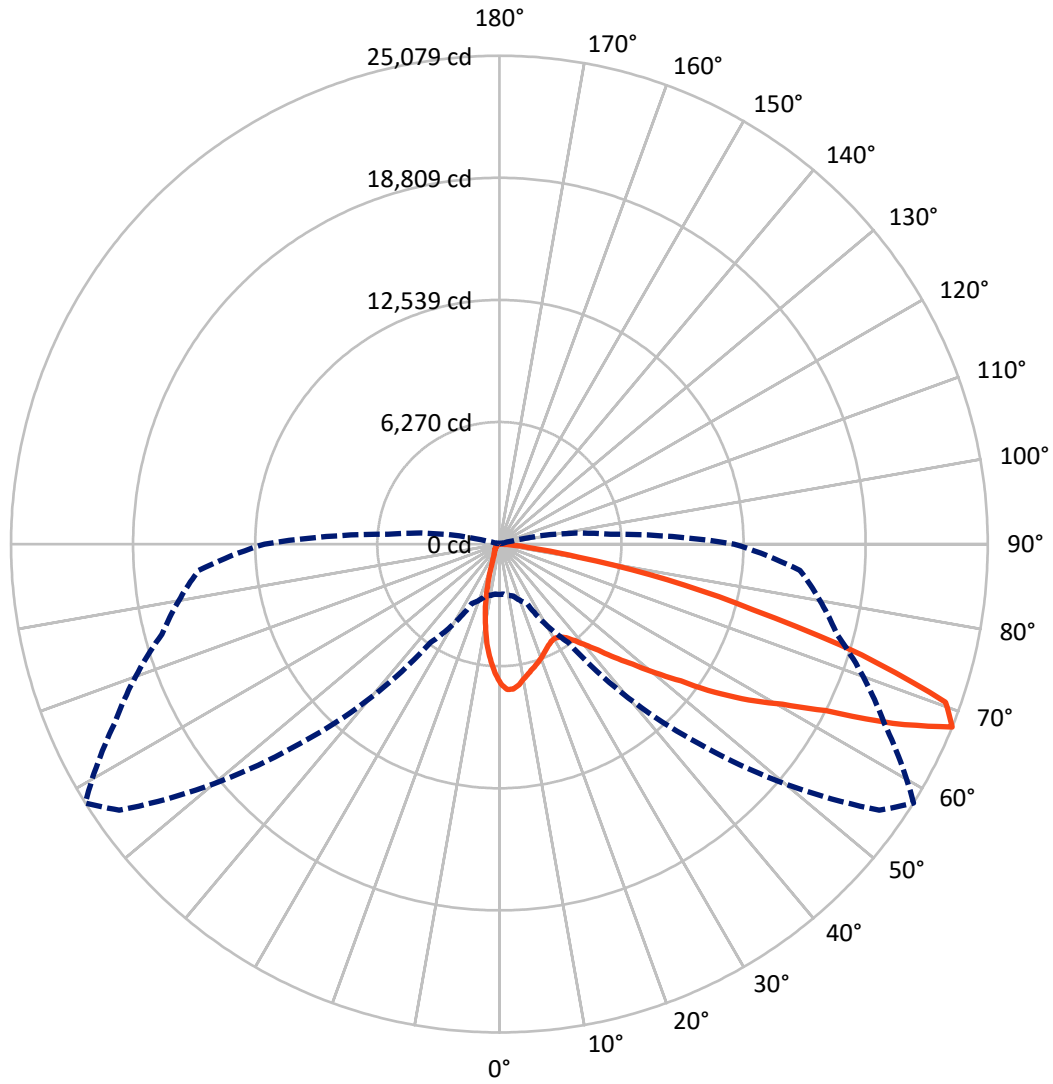
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Short - N/A

REPORT NUMBER: P638255
CATALOG NUMBER: GWS-SA4E-740-U-SL3-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P638255
 CATALOG NUMBER: GWS-SA4E-740-U-SL3-W-HSS

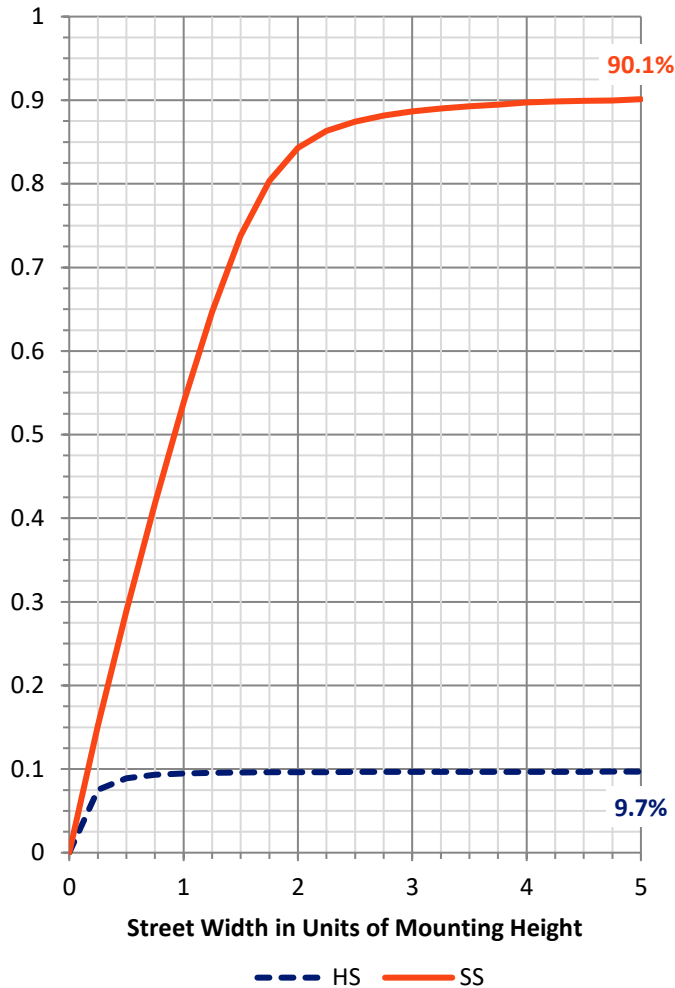
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2421.4	0.0	2421.4
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	22364.3	0.0	22364.3
	% Fixture	90.2	0.0	90.2
Total	Lumens	24785.7	0.0	24785.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.0	2.3
10°-20°	1209.3	4.9
20°-30°	1630.9	6.6
30°-40°	2291.7	9.2
40°-50°	3539.3	14.3
50°-60°	5659.9	22.8
60°-70°	6701.7	27.0
70°-80°	2964.6	12.0
80°-90°	207.3	0.8
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°	24785.7	100.0
0°-180°	24785.7	100.0

Coefficient of Utilization



REPORT NUMBER: P638255

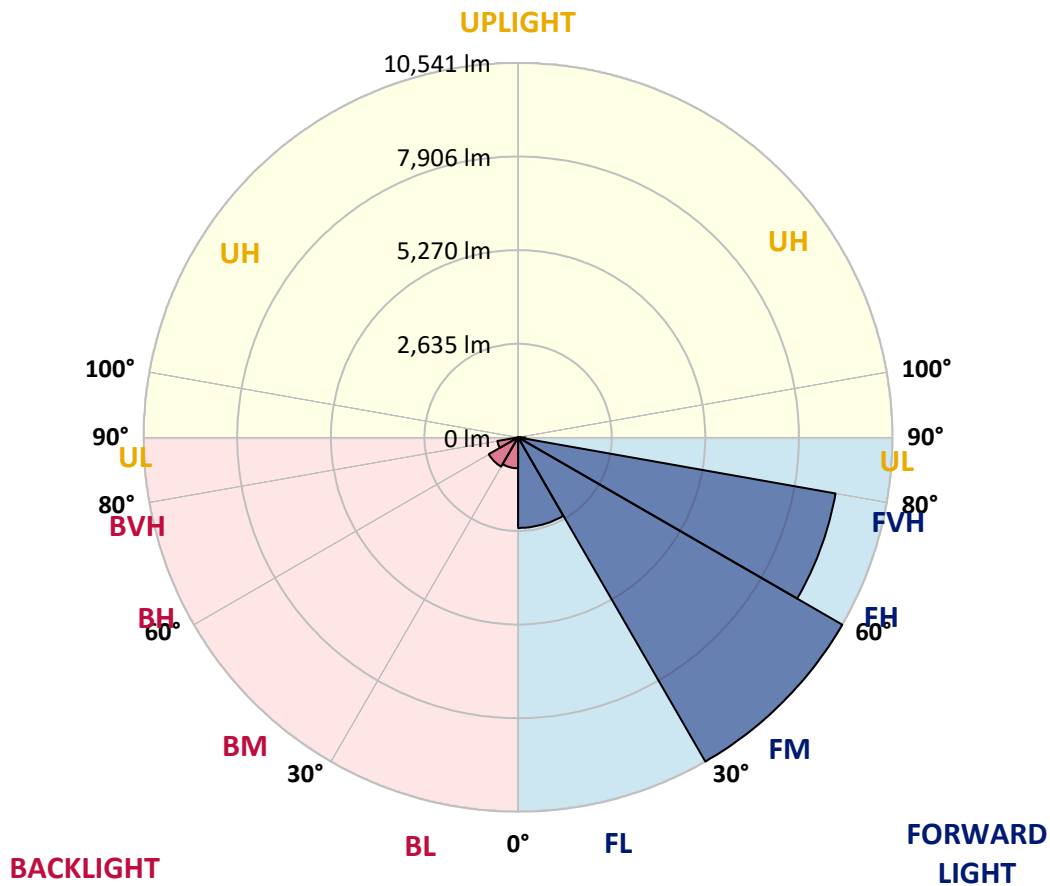
CATALOG NUMBER: GWS-SA4E-740-U-SL3-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2549.8	10.3			
FM (30°-60°)	10540.8	42.5			
FH (60°-80°)	9075.2	36.6			G4/12000
FVH (80°-90°)	198.4	0.8			G2/225
BL (0°-30°)	871.4	3.5	B2/1000		
BM (30°-60°)	950.1	3.8	B1/1000		
BH (60°-80°)	591.1	2.4	B2/1000		G2/1000
BVH (80°-90°)	8.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





REPORT NUMBER: P638255

CATALOG NUMBER: GWS-SA4E-740-U-SL3-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7149.4	7149.4	7149.4	7149.4	7149.4	7149.4	7149.4	7149.4	7149.4	7149.4	7149.4
2.5°	7520.1	7533.3	7550.8	7572.7	7568.4	7548.6	7524.5	7469.6	7434.5	7324.9	7191.0
5°	7278.8	7276.6	7320.5	7362.2	7436.7	7476.2	7531.1	7480.6	7463.1	7331.4	7114.3
7.5°	6807.1	6831.3	6881.7	6947.5	7055.0	7171.3	7302.9	7287.6	7340.2	7252.5	6982.6
10°	6344.3	6331.1	6410.1	6508.8	6673.3	6822.5	7013.3	7011.2	7149.4	7140.6	6833.5
12.5°	5938.4	5936.2	5997.7	6109.5	6302.6	6511.0	6769.8	6776.4	6947.5	7017.7	6706.2
15°	5596.2	5600.6	5659.8	5776.1	5975.7	6230.2	6530.7	6585.6	6778.6	6921.2	6581.2
17.5°	5352.7	5354.9	5390.0	5490.9	5686.1	5958.2	6320.1	6394.7	6642.6	6848.8	6480.3
20°	5240.8	5232.0	5238.6	5289.1	5440.4	5688.3	6105.1	6201.7	6517.6	6798.4	6388.1
22.5°	5256.2	5243.0	5212.3	5205.7	5273.7	5462.4	5877.0	5995.5	6381.6	6767.7	6304.8
25°	5392.2	5363.7	5319.8	5254.0	5227.7	5322.0	5677.4	5800.2	6254.3	6769.8	6241.2
27.5°	5600.6	5569.9	5515.0	5427.3	5324.2	5284.7	5541.4	5657.6	6164.4	6820.3	6210.4
30°	5866.0	5841.9	5789.2	5683.9	5545.7	5383.4	5512.8	5609.4	6120.5	6923.4	6223.6
32.5°	6179.7	6162.2	6118.3	6021.8	5863.8	5615.9	5609.4	5683.9	6155.6	7072.6	6274.1
35°	6482.5	6489.0	6491.2	6438.6	6269.7	5969.1	5874.8	5901.1	6300.4	7296.3	6388.1
37.5°	6809.3	6794.0	6872.9	6910.2	6747.9	6427.6	6285.0	6287.2	6576.8	7627.6	6603.1
40°	7057.2	7061.6	7232.7	7386.3	7318.3	7009.0	6804.9	6802.8	7002.4	8081.7	6949.7
42.5°	7289.8	7318.3	7570.6	7833.8	7928.1	7653.9	7506.9	7452.1	7599.1	8695.9	7469.6
45°	7537.6	7579.3	7932.5	8307.6	8555.5	8393.2	8276.9	8298.9	8316.4	9411.1	8169.4
47.5°	7827.2	7853.5	8290.1	8818.8	9281.7	9240.0	9246.6	9220.2	9211.5	10312.7	9095.2
50°	8178.2	8239.6	8742.0	9373.8	10005.6	10282.0	10374.1	10385.1	10242.5	11295.5	10053.9
52.5°	8924.1	8998.7	9428.6	9981.5	10795.3	11376.7	11751.8	11677.2	11457.8	12247.6	11104.7
55°	9803.8	9860.8	10275.4	10848.0	11760.6	12576.6	13467.3	13436.6	12899.1	13250.1	11969.0
57.5°	9887.1	9950.7	10593.5	11471.0	13000.0	14059.6	14996.3	15095.0	14307.5	13960.9	12741.2
60°	8950.4	9079.8	9957.3	11137.6	13473.9	16053.7	16672.3	16692.1	15340.7	14682.6	13684.5
62.5°	7173.5	7234.9	8119.0	9659.0	12743.4	17216.4	19232.4	18815.6	16667.9	15799.2	15178.4
65°	3760.0	4010.1	4780.1	6484.7	10334.7	16810.5	22312.4	22198.3	19054.7	17398.5	16341.1
67.5°	2579.8	2577.6	2759.7	3380.5	6162.2	14474.2	23823.9	25078.7	21814.4	17946.9	15498.7
70°	1963.4	1970.0	2132.3	2535.9	3191.9	9634.9	22165.4	24310.9	22327.8	16295.0	12535.0
72.5°	1303.1	1316.2	1586.1	2048.9	2549.1	4723.1	17225.2	19451.8	18787.1	13087.8	8823.2
75°	778.8	789.7	982.8	1489.5	2266.1	2643.4	10944.5	13447.6	12932.0	9020.6	4729.7
77.5°	320.3	329.1	504.6	927.9	1658.5	2053.3	6052.5	8799.0	7746.1	3586.7	1292.1
80°	133.8	138.2	243.5	649.3	1195.6	1287.7	2803.6	4135.2	3174.3	772.2	394.9
82.5°	48.3	50.5	89.9	357.6	743.7	969.6	1415.0	1634.3	895.0	252.3	212.8
85°	2.2	2.2	21.9	120.7	283.0	274.2	809.5	783.2	296.2	105.3	127.2
87.5°	0.0	0.0	2.2	2.2	4.4	11.0	76.8	136.0	63.6	26.3	54.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638255

CATALOG NUMBER: GWS-SA4E-740-U-SL3-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7149.4	7149.4	7149.4	7149.4	7149.4	7149.4	7149.4	7149.4	7149.4	7149.4	7149.4
2.5°	7103.3	6987.0	6859.8	6741.3	6552.7	6440.8	6302.6	6241.2	6153.4	6131.5	6144.6
5°	6958.5	6758.9	6453.9	6177.5	5820.0	5532.6	5243.0	5120.2	4962.2	4856.9	4813.0
7.5°	6754.5	6493.4	6017.4	5515.0	5023.6	4499.3	4100.1	3836.8	3597.7	3466.1	3439.8
10°	6548.3	6208.2	5526.0	4806.5	4045.2	3417.8	2878.2	2478.9	2154.2	2007.3	1893.2
12.5°	6335.5	5912.1	5025.8	4086.9	3202.8	2347.3	1680.4	1292.1	1059.6	967.4	982.8
15°	6140.2	5626.9	4530.0	3367.4	2255.2	1417.1	927.9	783.2	728.3	710.8	708.6
17.5°	5953.8	5357.1	4036.5	2667.6	1487.3	868.7	710.8	675.7	660.3	651.5	651.5
20°	5784.9	5098.2	3553.8	2009.5	960.9	688.8	642.8	625.2	612.1	605.5	605.5
22.5°	5626.9	4848.1	3082.2	1421.5	708.6	618.6	590.1	572.6	557.2	548.4	548.4
25°	5484.3	4622.2	2632.5	978.4	609.9	566.0	535.3	515.5	489.2	473.8	473.8
27.5°	5381.2	4420.4	2200.3	713.0	550.6	508.9	473.8	447.5	419.0	401.5	397.1
30°	5319.8	4249.3	1763.8	585.7	495.8	454.1	414.6	381.7	348.8	331.3	329.1
32.5°	5284.7	4091.3	1364.5	511.1	449.7	401.5	357.6	322.5	289.6	269.8	267.6
35°	5297.9	3968.5	1022.3	460.7	405.8	355.4	307.1	272.0	243.5	226.0	221.6
37.5°	5411.9	3913.6	767.8	421.2	368.5	315.9	265.4	232.5	206.2	193.0	190.9
40°	5633.5	3924.6	603.3	390.5	337.8	276.4	228.1	197.4	177.7	166.7	164.5
42.5°	5977.9	4016.7	498.0	364.2	304.9	241.3	197.4	173.3	153.6	142.6	140.4
45°	6491.2	4207.6	434.4	333.4	269.8	208.4	171.1	149.2	131.6	118.5	116.3
47.5°	7234.9	4538.8	392.7	304.9	239.1	179.9	147.0	125.0	109.7	98.7	96.5
50°	8026.9	4935.9	357.6	276.4	212.8	155.8	125.0	103.1	89.9	79.0	76.8
52.5°	8871.4	5363.7	331.3	250.1	188.7	133.8	105.3	85.6	72.4	61.4	59.2
55°	9683.1	5793.6	300.5	232.5	160.1	114.1	87.7	70.2	57.0	48.3	48.3
57.5°	10472.9	6188.5	267.6	204.0	131.6	96.5	72.4	57.0	46.1	39.5	37.3
60°	11416.2	6734.7	230.3	173.3	109.7	81.2	59.2	46.1	37.3	30.7	30.7
62.5°	12818.0	7302.9	197.4	144.8	92.1	68.0	48.3	37.3	30.7	26.3	24.1
65°	13276.4	6995.8	166.7	118.5	74.6	54.8	39.5	32.9	26.3	24.1	21.9
67.5°	12052.3	5734.4	138.2	96.5	61.4	46.1	35.1	28.5	24.1	21.9	19.7
70°	9404.5	4069.4	107.5	72.4	50.5	37.3	30.7	26.3	21.9	19.7	19.7
72.5°	6396.9	2406.5	85.6	54.8	41.7	32.9	26.3	24.1	21.9	19.7	17.5
75°	3150.2	855.6	65.8	41.7	32.9	28.5	24.1	21.9	19.7	17.5	17.5
77.5°	849.0	236.9	50.5	32.9	26.3	21.9	21.9	21.9	19.7	15.4	15.4
80°	287.4	98.7	37.3	24.1	21.9	17.5	15.4	19.7	17.5	15.4	13.2
82.5°	157.9	48.3	26.3	19.7	15.4	13.2	13.2	13.2	13.2	11.0	11.0
85°	100.9	26.3	17.5	15.4	15.4	11.0	8.8	8.8	6.6	6.6	6.6
87.5°	46.1	15.4	15.4	13.2	13.2	11.0	6.6	4.4	2.2	2.2	2.2
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)