

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: P637811

Luminaire Tested: GWS-SA4D-750-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-750-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II 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: 19857.7 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

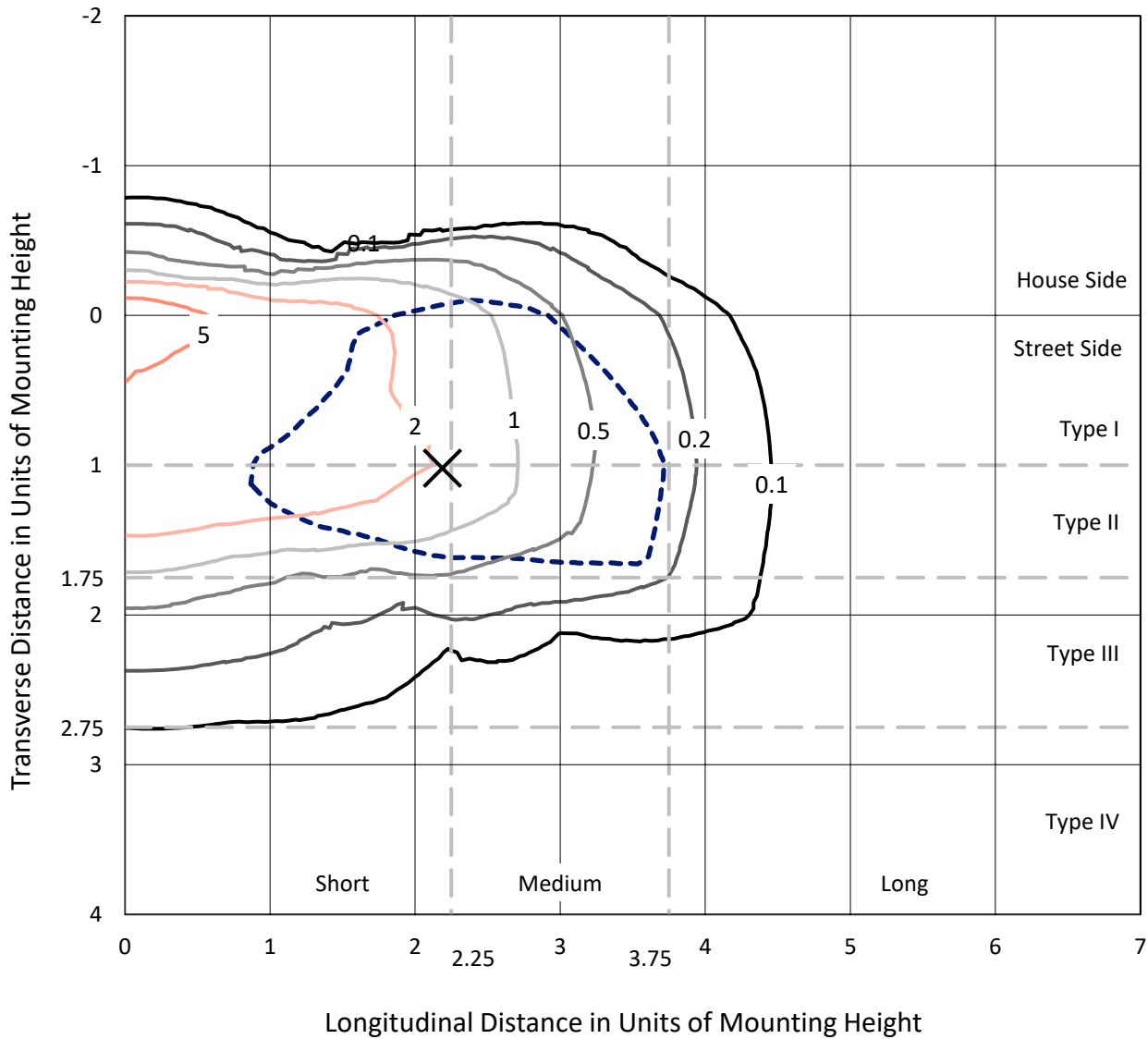
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

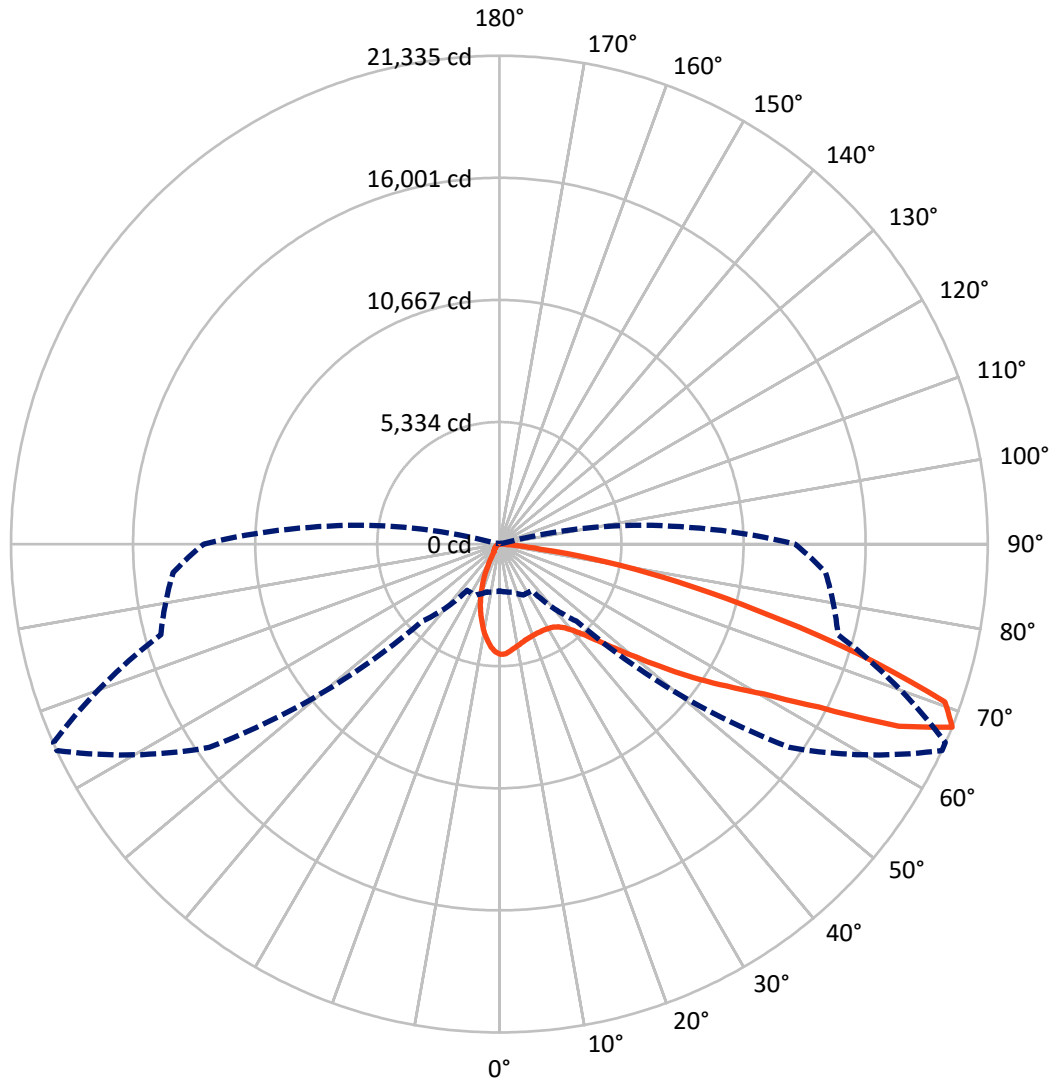
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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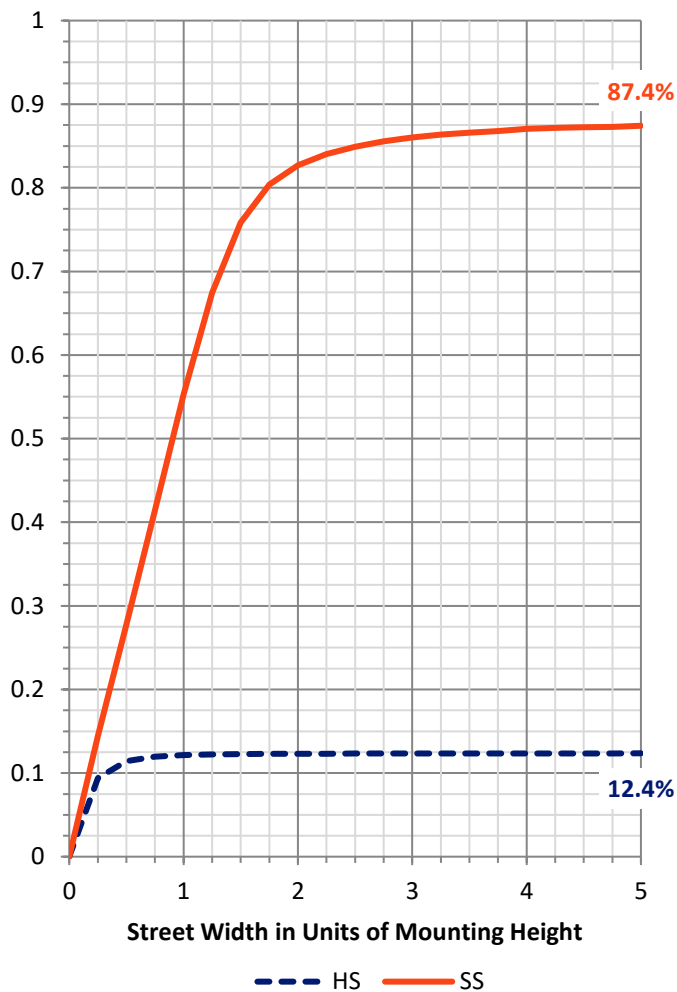
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2479.6	0.0	2479.6
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	17378.1	0.0	17378.1
	% Fixture	87.5	0.0	87.5
Total	Lumens	19857.7	0.0	19857.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.0	2.0
10°-20°	899.2	4.5
20°-30°	1284.9	6.5
30°-40°	1869.3	9.4
40°-50°	2927.7	14.7
50°-60°	4567.3	23.0
60°-70°	5017.0	25.3
70°-80°	2670.0	13.4
80°-90°	222.3	1.1
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°	19857.7	100.0
0°-180°	19857.7	100.0

Coefficient of Utilization



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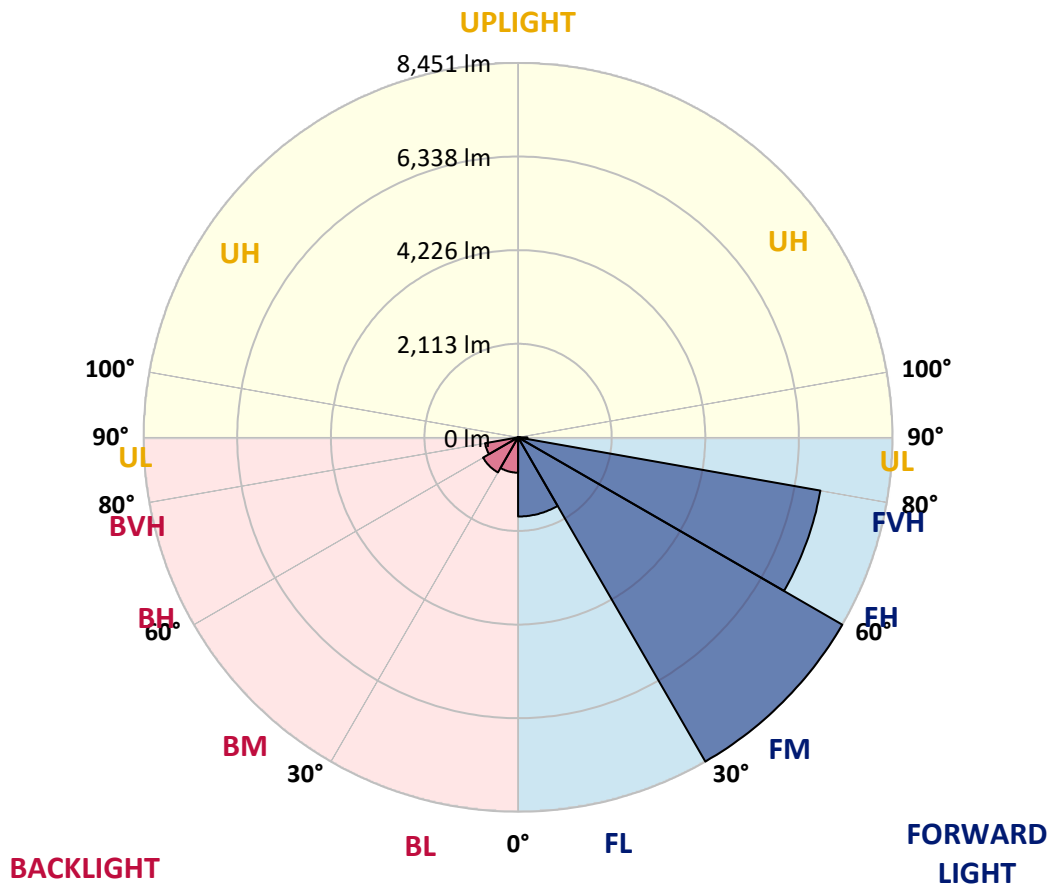
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1787.1	9.0			
FM (30°-60°)	8451.0	42.6			
FH (60°-80°)	6929.6	34.9			G3/7500
FVH (80°-90°)	210.4	1.1			G2/225
BL (0°-30°)	797.0	4.0	B2/1000		
BM (30°-60°)	913.4	4.6	B1/1000		
BH (60°-80°)	757.4	3.8	B2/1000		G2/1000
BVH (80°-90°)	11.9	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4816.1	4816.1	4816.1	4816.1	4816.1	4816.1	4816.1	4816.1	4816.1	4816.1	4816.1
2.5°	4649.1	4663.5	4643.7	4692.2	4701.2	4755.1	4785.6	4807.1	4805.3	4832.3	4832.3
5°	4376.2	4390.5	4379.8	4431.8	4473.1	4557.5	4627.6	4708.4	4712.0	4794.6	4825.1
7.5°	4144.5	4146.3	4146.3	4211.0	4264.8	4369.0	4473.1	4597.0	4611.4	4738.9	4819.7
10°	3954.2	3959.6	3961.4	4035.0	4094.2	4219.9	4352.8	4501.9	4518.0	4690.4	4816.1
12.5°	3823.1	3824.9	3832.1	3909.3	3973.9	4105.0	4239.7	4410.3	4431.8	4634.8	4800.0
15°	3760.2	3756.6	3760.2	3824.9	3889.5	4015.2	4153.5	4336.7	4360.0	4588.1	4801.8
17.5°	3756.6	3751.3	3747.7	3796.1	3837.5	3948.8	4088.9	4288.2	4313.3	4566.5	4821.5
20°	3808.7	3805.1	3787.2	3808.7	3817.7	3909.3	4047.6	4250.5	4275.6	4562.9	4864.6
22.5°	3945.2	3936.2	3909.3	3889.5	3841.0	3894.9	4018.8	4223.5	4252.3	4571.9	4920.3
25°	4148.1	4144.5	4110.4	4061.9	3938.0	3916.5	4020.6	4223.5	4250.5	4582.7	4979.5
27.5°	4453.4	4431.8	4388.7	4304.3	4126.6	4000.9	4056.5	4234.3	4261.2	4597.0	5028.0
30°	4764.0	4762.2	4747.9	4661.7	4397.7	4162.5	4131.9	4263.0	4288.2	4609.6	5072.9
32.5°	5085.5	5090.9	5126.8	5060.3	4771.2	4403.1	4268.4	4322.3	4340.3	4634.8	5112.4
35°	5390.7	5401.5	5496.7	5520.0	5225.5	4767.6	4491.1	4440.8	4442.6	4690.4	5164.5
37.5°	5683.4	5719.4	5872.0	5985.1	5791.2	5209.4	4812.5	4641.9	4627.6	4801.8	5243.5
40°	6015.7	6083.9	6276.0	6468.2	6407.1	5793.0	5250.7	4950.8	4920.3	5006.5	5385.4
42.5°	6383.8	6457.4	6712.4	6981.8	7010.5	6498.7	5798.4	5401.5	5349.4	5351.2	5651.1
45°	6778.8	6877.6	7173.9	7561.8	7736.0	7285.2	6473.6	6010.3	5958.2	5881.0	6078.5
47.5°	7297.8	7384.0	7669.5	8116.6	8450.7	8129.2	7358.9	6793.2	6698.0	6584.9	6742.9
50°	7744.9	7820.4	8066.4	8626.6	9321.6	9217.4	8362.7	7771.9	7680.3	7488.1	7619.2
52.5°	7843.7	7903.0	8129.2	8759.5	9987.8	10591.1	9592.7	8955.2	8890.6	8535.1	8585.3
55°	7400.2	7489.9	7692.9	8393.2	10162.0	11934.3	11189.1	10289.5	10154.8	9587.3	9677.1
57.5°	6279.6	6439.4	6629.8	7540.2	9689.7	12649.0	13419.4	11702.7	11580.6	10600.1	10601.9
60°	4602.4	4731.7	4859.2	5692.4	8569.2	12600.6	15443.2	13290.1	13067.4	11428.0	11397.4
62.5°	3347.2	3413.7	3411.9	3708.2	5884.6	11770.9	16506.2	15682.0	15163.0	12313.2	12139.1
65°	2632.5	2630.7	2707.9	2804.9	3286.2	9086.3	16637.3	19174.7	18614.4	13500.2	13137.5
67.5°	2048.9	2088.4	2165.6	2451.2	2469.1	4755.1	15484.5	21334.9	21324.2	15312.1	14306.5
70°	1580.2	1634.1	1743.6	2160.2	2280.6	2661.3	11586.0	20650.8	20825.0	16122.0	13478.7
72.5°	1014.6	1011.0	1172.6	1745.4	2190.8	2217.7	6407.1	16403.9	16601.4	14602.8	10898.2
75°	567.4	571.0	662.6	1068.5	2041.7	2086.6	3173.0	11697.3	11853.5	11384.9	8373.4
77.5°	222.7	229.9	310.7	562.1	1346.8	1864.0	1885.5	7976.6	7999.9	7055.4	5135.8
80°	89.8	95.2	158.0	348.4	820.6	1255.2	1346.8	4699.4	4604.2	2731.3	1494.0
82.5°	26.9	28.7	62.9	197.5	429.2	892.5	908.6	1802.9	1702.3	587.2	380.7
85°	1.8	1.8	14.4	61.1	152.6	224.5	605.2	587.2	520.8	147.2	168.8
87.5°	0.0	0.0	1.8	1.8	3.6	7.2	64.6	107.7	109.5	26.9	75.4
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°	4816.1	4816.1	4816.1	4816.1	4816.1	4816.1	4816.1	4816.1	4816.1	4816.1	4816.1
2.5°	4832.3	4767.6	4762.2	4712.0	4661.7	4598.8	4525.2	4471.3	4433.6	4367.2	4354.6
5°	4825.1	4738.9	4658.1	4514.4	4354.6	4182.2	4031.4	3891.3	3803.3	3744.1	3718.9
7.5°	4810.7	4701.2	4514.4	4243.3	3975.7	3674.0	3438.8	3223.3	3076.1	2989.9	2952.2
10°	4800.0	4652.7	4349.2	3938.0	3523.2	3106.6	2749.2	2429.6	2251.8	2111.8	2088.4
12.5°	4778.4	4582.7	4137.3	3580.7	3045.5	2492.5	2036.3	1644.9	1373.7	1251.6	1208.5
15°	4756.9	4509.0	3925.4	3203.6	2524.8	1842.4	1289.3	912.2	725.5	668.0	664.4
17.5°	4753.3	4442.6	3695.6	2846.2	1978.9	1206.7	734.4	590.8	551.3	536.9	536.9
20°	4764.0	4386.9	3469.3	2435.0	1442.0	734.4	547.7	511.8	488.4	475.9	475.9
22.5°	4774.8	4329.5	3252.0	2020.2	957.1	536.9	483.0	452.5	425.6	411.2	404.0
25°	4782.0	4266.6	3011.4	1603.6	624.9	466.9	423.8	384.3	352.0	334.0	334.0
27.5°	4780.2	4191.2	2769.0	1195.9	484.8	414.8	362.7	321.4	289.1	269.4	271.2
30°	4765.8	4108.6	2517.6	835.0	423.8	362.7	310.7	267.6	235.2	219.1	217.3
32.5°	4755.1	4020.6	2226.7	587.2	380.7	317.8	264.0	222.7	195.7	183.2	181.4
35°	4742.5	3934.4	1950.2	447.1	343.0	274.7	222.7	188.6	167.0	156.2	156.2
37.5°	4746.1	3844.6	1650.3	384.3	305.3	238.8	190.3	161.6	143.7	132.9	131.1
40°	4801.8	3790.8	1355.8	348.4	271.2	206.5	165.2	140.1	122.1	111.3	109.5
42.5°	4940.0	3792.6	1073.8	321.4	240.6	176.0	143.7	120.3	104.2	91.6	89.8
45°	5216.6	3868.0	824.2	292.7	208.3	152.6	123.9	102.4	86.2	75.4	73.6
47.5°	5669.1	4092.4	624.9	267.6	181.4	132.9	105.9	86.2	71.8	62.9	61.1
50°	6389.2	4498.3	492.0	237.0	152.6	114.9	89.8	71.8	59.3	50.3	48.5
52.5°	7254.7	5107.0	422.0	210.1	131.1	100.6	77.2	59.3	48.5	41.3	39.5
55°	8249.5	5834.3	389.7	183.2	111.3	86.2	62.9	48.5	39.5	34.1	30.5
57.5°	9161.8	6489.7	387.9	156.2	95.2	73.6	52.1	41.3	34.1	26.9	25.1
60°	10050.6	7037.4	364.5	129.3	82.6	61.1	44.9	34.1	28.7	23.3	21.5
62.5°	10856.9	7482.8	305.3	104.2	70.0	50.3	37.7	30.5	25.1	19.8	19.8
65°	11869.7	8050.2	233.4	84.4	57.5	41.3	32.3	26.9	23.3	18.0	18.0
67.5°	12916.6	8350.1	167.0	70.0	46.7	35.9	28.7	25.1	19.8	16.2	16.2
70°	11699.1	7055.4	120.3	57.5	39.5	30.5	25.1	23.3	19.8	16.2	14.4
72.5°	9136.6	5087.3	89.8	44.9	34.1	28.7	23.3	21.5	18.0	14.4	14.4
75°	6775.2	2966.5	68.2	35.9	26.9	23.3	23.3	21.5	18.0	14.4	12.6
77.5°	3683.0	1034.3	52.1	28.7	21.5	18.0	19.8	19.8	16.2	12.6	10.8
80°	975.1	283.7	35.9	21.5	18.0	14.4	14.4	18.0	14.4	10.8	10.8
82.5°	283.7	82.6	25.1	18.0	14.4	12.6	12.6	12.6	10.8	9.0	7.2
85°	138.3	30.5	18.0	14.4	12.6	10.8	9.0	9.0	7.2	5.4	5.4
87.5°	61.1	12.6	14.4	12.6	12.6	9.0	7.2	5.4	5.4	3.6	1.8
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)