

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: P637834

Luminaire Tested: GWS-SA4D-750-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-750-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20202.4 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

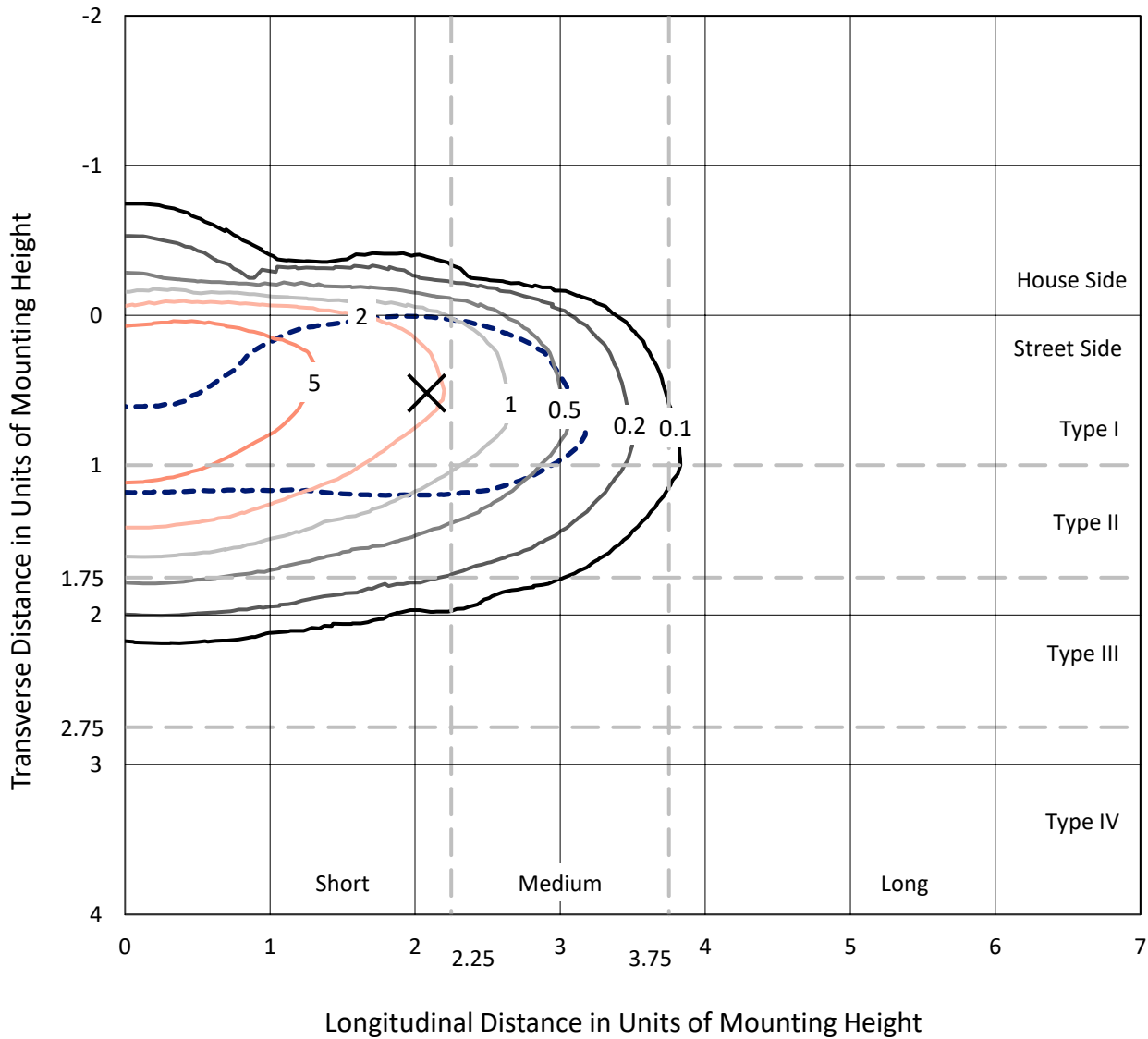
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637834
 CATALOG NUMBER: GWS-SA4D-750-U-T2R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

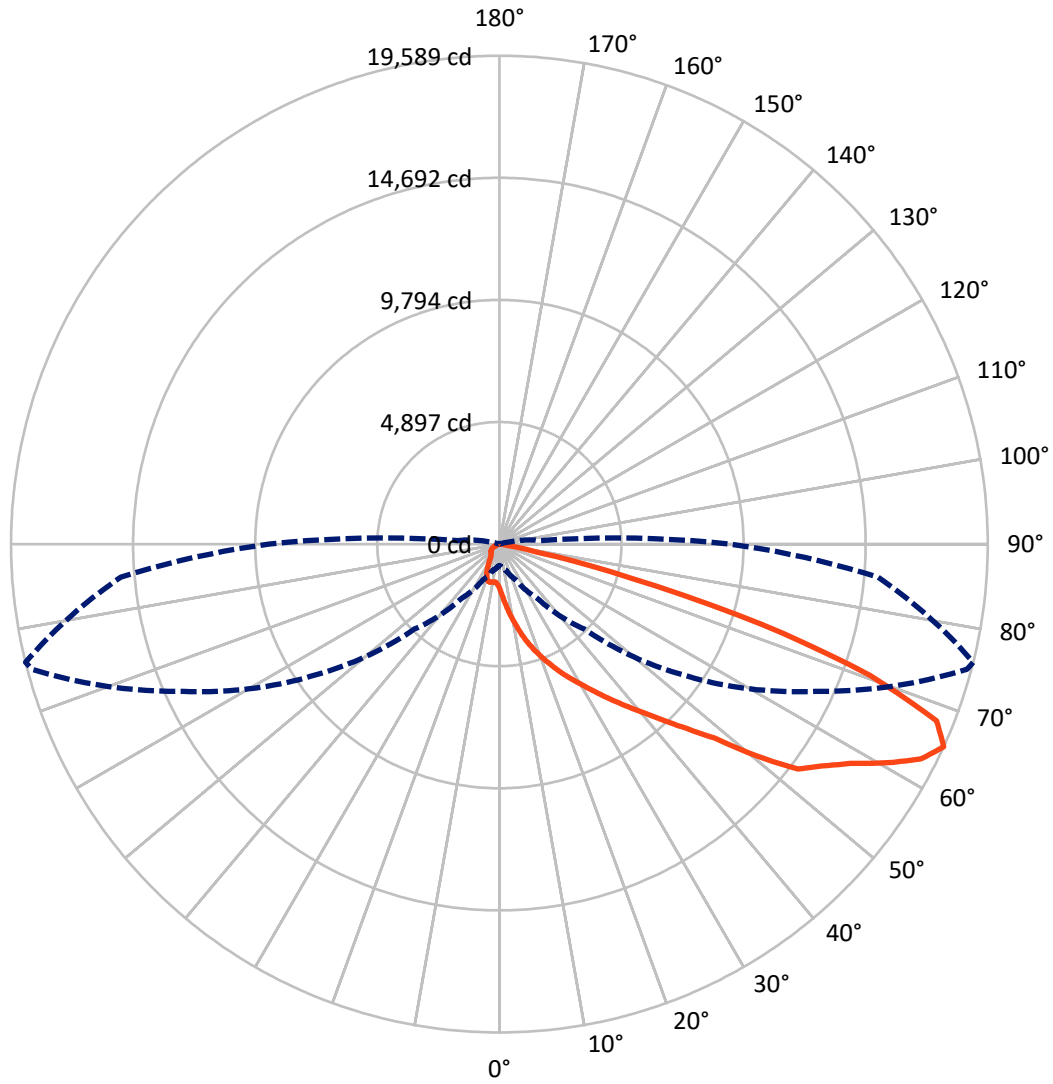
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

REPORT NUMBER: P637834
CATALOG NUMBER: GWS-SA4D-750-U-T2R-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P637834

CATALOG NUMBER: GWS-SA4D-750-U-T2R-W-HSS

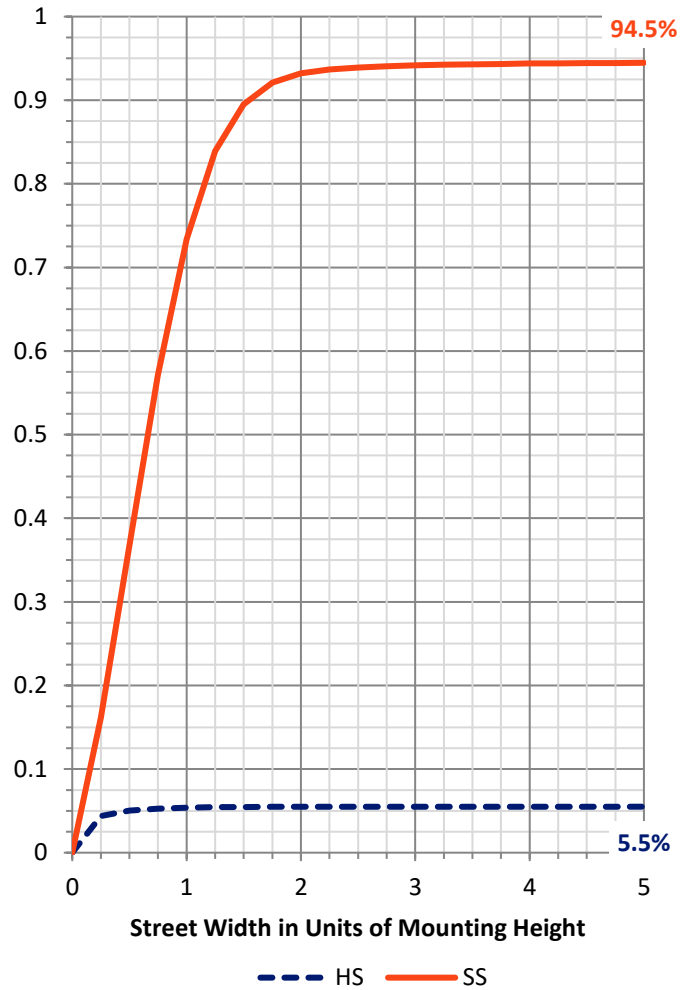
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1117.1	0.0	1117.1
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	19085.3	0.0	19085.3
	% Fixture	94.5	0.0	94.5
Total	Lumens	20202.4	0.0	20202.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.6	1.1
10°-20°	825.7	4.1
20°-30°	1684.5	8.3
30°-40°	2995.9	14.8
40°-50°	4428.7	21.9
50°-60°	5070.5	25.1
60°-70°	3868.6	19.1
70°-80°	1083.7	5.4
80°-90°	27.3	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°	20202.4	100.0
0°-180°	20202.4	100.0

Coefficient of Utilization



REPORT NUMBER: P637834

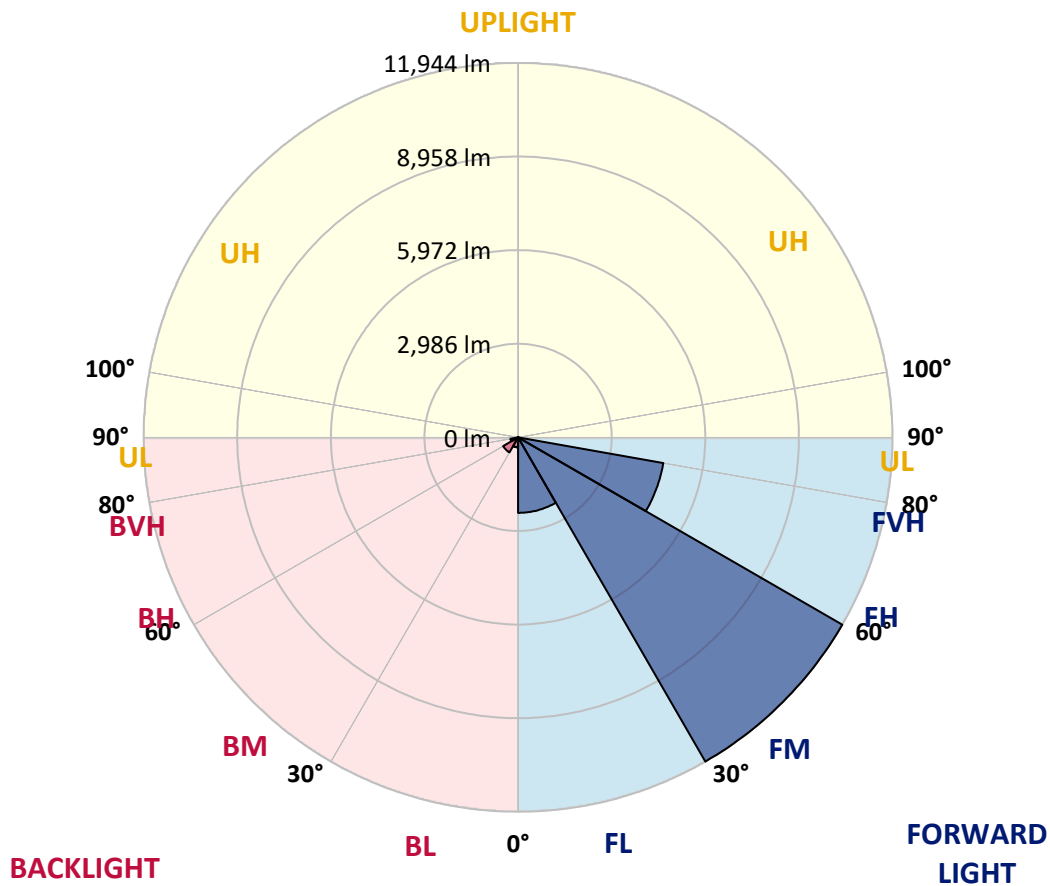
CATALOG NUMBER: GWS-SA4D-750-U-T2R-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2409.0	11.9			
FM (30°-60°)	11944.0	59.1			
FH (60°-80°)	4706.7	23.3			G2/5000
FVH (80°-90°)	25.7	0.1			G1/100
BL (0°-30°)	318.8	1.6	B1/500		
BM (30°-60°)	551.1	2.7	B1/1000		
BH (60°-80°)	245.6	1.2	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





REPORT NUMBER: P637834

CATALOG NUMBER: GWS-SA4D-750-U-T2R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1788.6	1788.6	1788.6	1788.6	1788.6	1788.6	1788.6	1788.6	1788.6	1788.6	1788.6
2.5°	2756.6	2797.9	2765.6	2711.7	2607.5	2507.0	2377.7	2199.9	2058.0	2040.1	1907.2
5°	3722.8	3719.2	3649.1	3579.1	3469.5	3297.1	3036.8	2706.3	2388.5	2361.5	2063.4
7.5°	4297.4	4302.8	4263.3	4209.4	4101.7	3923.9	3652.7	3254.0	2788.9	2735.1	2277.1
10°	4780.5	4778.7	4750.0	4724.8	4627.9	4509.3	4218.4	3780.2	3219.9	3135.5	2516.0
12.5°	5143.3	5155.8	5170.2	5195.3	5154.0	5037.3	4762.5	4284.9	3656.3	3562.9	2788.9
15°	5430.6	5434.2	5488.1	5585.0	5619.2	5558.1	5308.5	4773.3	4087.3	4006.5	3103.2
17.5°	5516.8	5524.0	5615.6	5793.4	5972.9	6007.1	5818.5	5265.4	4511.1	4424.9	3408.5
20°	5698.2	5714.3	5782.6	5938.8	6165.1	6348.3	6274.6	5762.8	4934.9	4821.8	3721.0
22.5°	6269.3	6278.2	6254.9	6274.6	6391.4	6603.3	6648.2	6244.1	5369.5	5249.2	4058.6
25°	7251.6	7255.2	7091.7	6937.3	6849.3	6888.8	6987.6	6687.7	5800.5	5682.0	4372.9
27.5°	8271.6	8284.2	8088.4	7826.2	7512.0	7332.4	7303.7	7093.5	6235.1	6104.0	4683.5
30°	9232.4	9232.4	9025.9	8706.2	8286.0	7935.8	7729.3	7503.0	6700.3	6556.6	5001.4
32.5°	10096.2	10089.0	9825.0	9478.4	9063.6	8679.3	8244.7	7930.4	7217.5	7057.6	5367.7
35°	10809.1	10791.2	10491.3	10159.0	9715.5	9429.9	8945.0	8390.1	7777.8	7617.9	5744.9
37.5°	11347.9	11328.1	11053.3	10701.4	10290.1	10105.2	9699.3	8941.5	8368.6	8223.1	6163.3
40°	11640.6	11601.1	11410.7	11148.5	10803.7	10642.1	10473.3	9625.7	9063.6	8882.2	6657.2
42.5°	11726.8	11680.1	11554.4	11432.3	11224.0	11096.4	11277.8	10397.9	9826.8	9670.6	7221.0
45°	11471.8	11444.8	11434.1	11522.1	11559.8	11595.7	12042.9	11252.7	10669.0	10550.5	7930.4
47.5°	10857.6	10850.4	10945.6	11311.9	11710.6	12089.5	12874.3	12306.8	11760.9	11633.4	8921.7
50°	9722.6	9796.3	10062.1	10705.0	11502.3	12369.7	13651.9	13768.6	13528.0	13341.2	10214.7
52.5°	7948.4	8090.2	8686.4	9663.4	10809.1	12290.7	14011.1	14939.5	15185.6	14991.6	11141.3
55°	6236.9	6369.8	6901.4	8140.5	9668.8	11689.1	14027.2	15343.6	15880.5	15701.0	11768.1
57.5°	4645.8	4767.9	5251.0	6436.3	8117.2	10505.6	13642.9	15568.1	16704.8	16589.9	12757.6
60°	3036.8	3157.1	3593.5	4629.7	6296.2	8781.6	12696.5	15521.4	17827.2	17816.5	13973.4
62.5°	1684.5	1779.7	2095.7	2903.9	4394.4	6800.8	11209.6	15052.7	18913.7	18982.0	14975.4
65°	862.0	923.1	1115.2	1596.5	2659.6	4821.8	9253.9	13978.8	19416.5	19588.9	15239.4
67.5°	563.9	583.6	630.3	829.7	1424.1	3033.2	6964.2	12256.6	18709.0	18910.1	14354.1
70°	457.9	474.1	501.0	553.1	734.5	1610.9	4574.0	9789.1	15632.7	15769.2	11430.5
72.5°	335.8	357.4	409.4	443.6	529.8	883.5	2379.5	6425.5	10735.5	10976.1	7183.3
75°	247.8	260.4	303.5	350.2	432.8	558.5	910.5	3378.0	5543.7	5403.7	3017.0
77.5°	149.1	158.0	193.9	224.5	308.9	348.4	317.9	1248.1	1686.3	1585.7	729.1
80°	73.6	82.6	127.5	168.8	197.5	140.1	132.9	348.4	375.3	375.3	183.2
82.5°	25.1	32.3	68.2	111.3	97.0	53.9	62.9	89.8	100.6	106.0	53.9
85°	0.0	0.0	16.2	32.3	14.4	7.2	16.2	19.8	25.1	26.9	18.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.4	7.2	7.2
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: P637834
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1788.6	1788.6	1788.6	1788.6	1788.6	1788.6	1788.6	1788.6	1788.6	1788.6	1788.6
2.5°	1835.3	1750.9	1623.4	1508.5	1420.5	1337.9	1275.0	1224.8	1215.8	1187.0	1190.6
5°	1917.9	1765.3	1530.0	1348.7	1221.2	1135.0	1063.1	1009.3	985.9	962.6	944.6
7.5°	2045.5	1824.6	1494.1	1273.2	1124.2	991.3	880.0	790.2	747.1	720.1	702.2
10°	2201.7	1907.2	1495.9	1228.3	1007.5	804.5	651.9	553.1	506.4	492.1	490.3
12.5°	2388.5	2011.3	1510.3	1154.7	838.7	598.0	483.1	438.2	423.8	411.2	411.2
15°	2586.0	2128.1	1510.3	1020.0	639.3	466.9	418.4	389.7	371.7	364.6	361.0
17.5°	2794.3	2237.6	1474.4	835.1	490.3	411.2	371.7	344.8	330.4	319.7	316.1
20°	3017.0	2341.8	1384.6	639.3	420.2	368.1	330.4	303.5	289.1	278.4	278.4
22.5°	3243.3	2438.7	1239.1	492.1	371.7	326.8	290.9	265.8	251.4	240.6	240.6
25°	3453.4	2503.4	1052.4	405.9	335.8	290.9	258.6	233.5	217.3	210.1	206.5
27.5°	3649.1	2544.7	845.8	357.4	301.7	260.4	226.3	202.9	190.4	185.0	181.4
30°	3852.1	2555.5	646.5	325.0	273.0	229.9	197.5	179.6	168.8	161.6	161.6
32.5°	4049.6	2542.9	493.9	298.1	247.8	202.9	176.0	159.8	150.8	145.5	143.7
35°	4250.7	2485.4	400.5	274.8	222.7	177.8	156.2	143.7	138.3	131.1	131.1
37.5°	4469.8	2408.2	348.4	251.4	197.5	159.8	140.1	131.1	123.9	118.5	116.7
40°	4742.8	2318.4	319.7	231.7	174.2	143.7	125.7	116.7	111.3	106.0	104.2
42.5°	5066.0	2230.4	305.3	210.1	156.2	127.5	113.1	102.4	97.0	89.8	88.0
45°	5524.0	2210.7	289.1	186.8	140.1	114.9	98.8	88.0	80.8	75.4	73.6
47.5°	6260.3	2266.3	262.2	161.6	123.9	100.6	84.4	75.4	66.4	61.1	57.5
50°	6991.2	2252.0	235.3	140.1	109.5	86.2	71.8	62.9	53.9	48.5	46.7
52.5°	7389.9	2183.7	210.1	123.9	95.2	73.6	61.1	50.3	44.9	39.5	37.7
55°	7750.8	2156.8	185.0	107.7	80.8	64.6	50.3	41.3	37.7	32.3	30.5
57.5°	8458.4	2219.6	163.4	93.4	70.0	55.7	43.1	34.1	30.5	25.1	23.3
60°	9198.3	2226.8	140.1	80.8	61.1	46.7	34.1	26.9	23.3	18.0	16.2
62.5°	9584.4	2045.5	114.9	68.2	50.3	39.5	28.7	21.5	18.0	10.8	10.8
65°	9261.1	1654.0	97.0	55.7	39.5	30.5	21.5	16.2	10.8	5.4	1.8
67.5°	8196.2	1176.3	80.8	44.9	28.7	21.5	16.2	10.8	1.8	0.0	0.0
70°	6001.7	671.6	62.9	32.3	21.5	14.4	10.8	5.4	0.0	0.0	0.0
72.5°	3688.6	359.2	46.7	21.5	16.2	10.8	9.0	3.6	0.0	0.0	0.0
75°	1399.0	172.4	28.7	14.4	12.6	9.0	5.4	1.8	0.0	0.0	0.0
77.5°	378.9	84.4	16.2	10.8	9.0	5.4	3.6	0.0	0.0	0.0	0.0
80°	98.8	39.5	10.8	7.2	5.4	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	34.1	18.0	5.4	5.4	3.6	1.8	0.0	0.0	0.0	0.0	0.0
85°	14.4	7.2	3.6	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	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)