

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: P641307

Luminaire Tested: GWS-SA5F-750-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641307
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-750-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33422.5 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

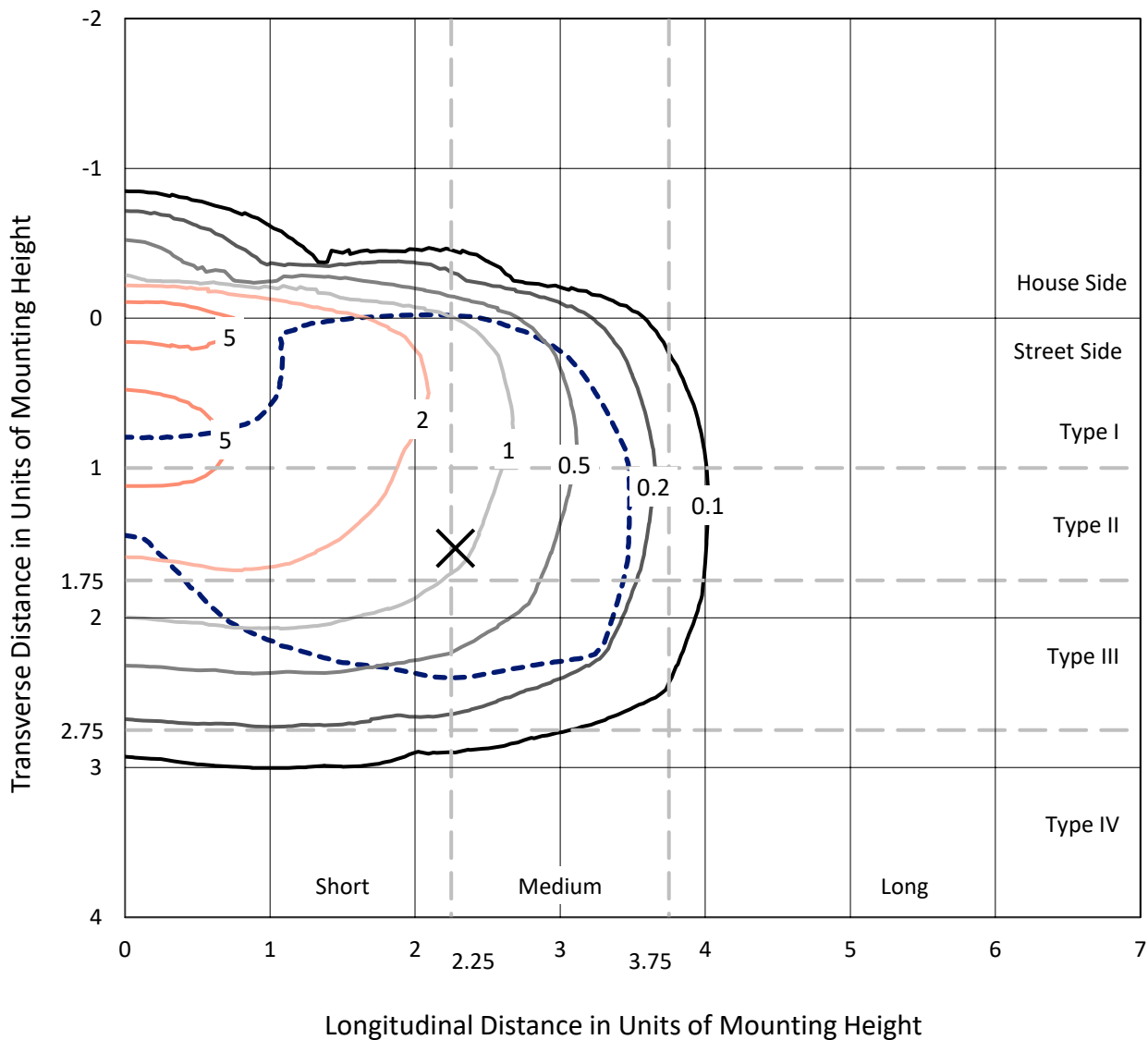
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641307
 CATALOG NUMBER: GWS-SA5F-750-U-T3R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

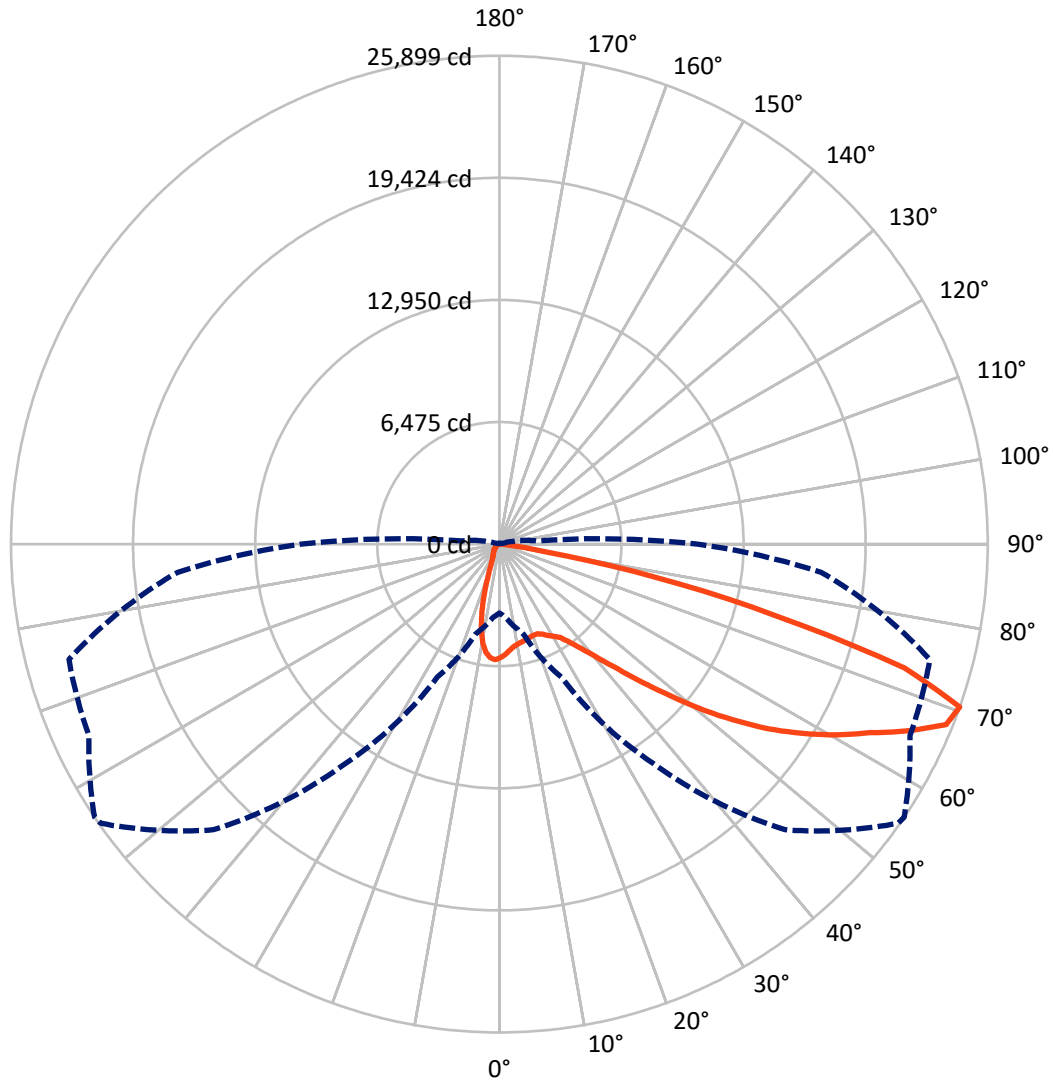
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P641307
CATALOG NUMBER: GWS-SA5F-750-U-T3R-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P641307
 CATALOG NUMBER: GWS-SA5F-750-U-T3R-W-HSS

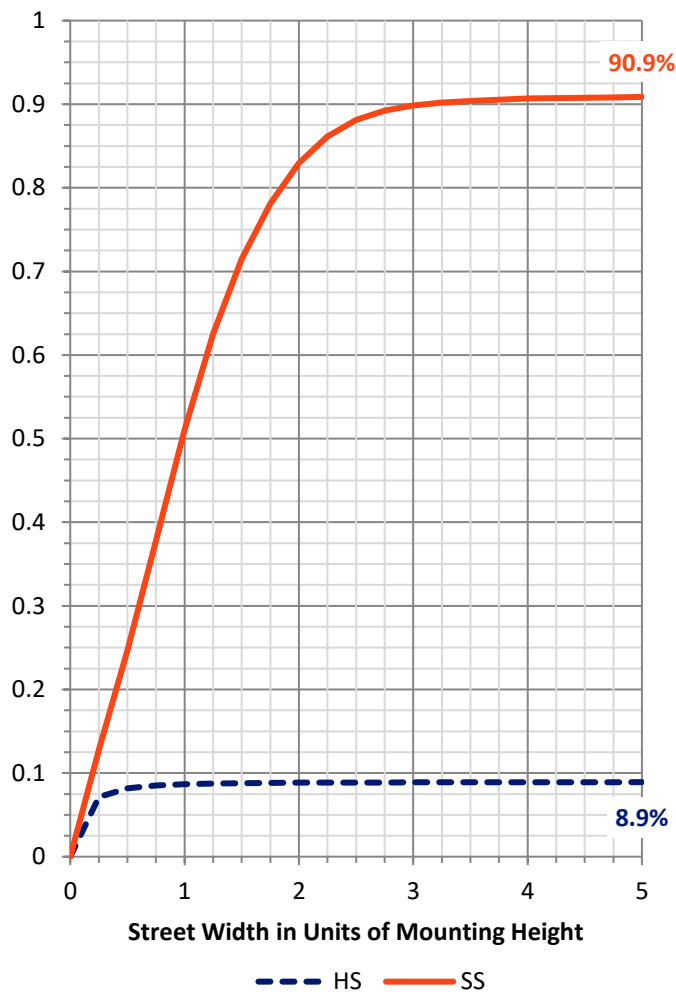
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3002.0	0.0	3002.0
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	30420.5	0.0	30420.5
	% Fixture	91.0	0.0	91.0
Total	Lumens	33422.5	0.0	33422.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.4	1.5
10°-20°	1163.7	3.5
20°-30°	1843.4	5.5
30°-40°	3178.9	9.5
40°-50°	5368.0	16.1
50°-60°	7887.4	23.6
60°-70°	9350.9	28.0
70°-80°	3987.6	11.9
80°-90°	125.2	0.4
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°	33422.5	100.0
0°-180°	33422.5	100.0

Coefficient of Utilization



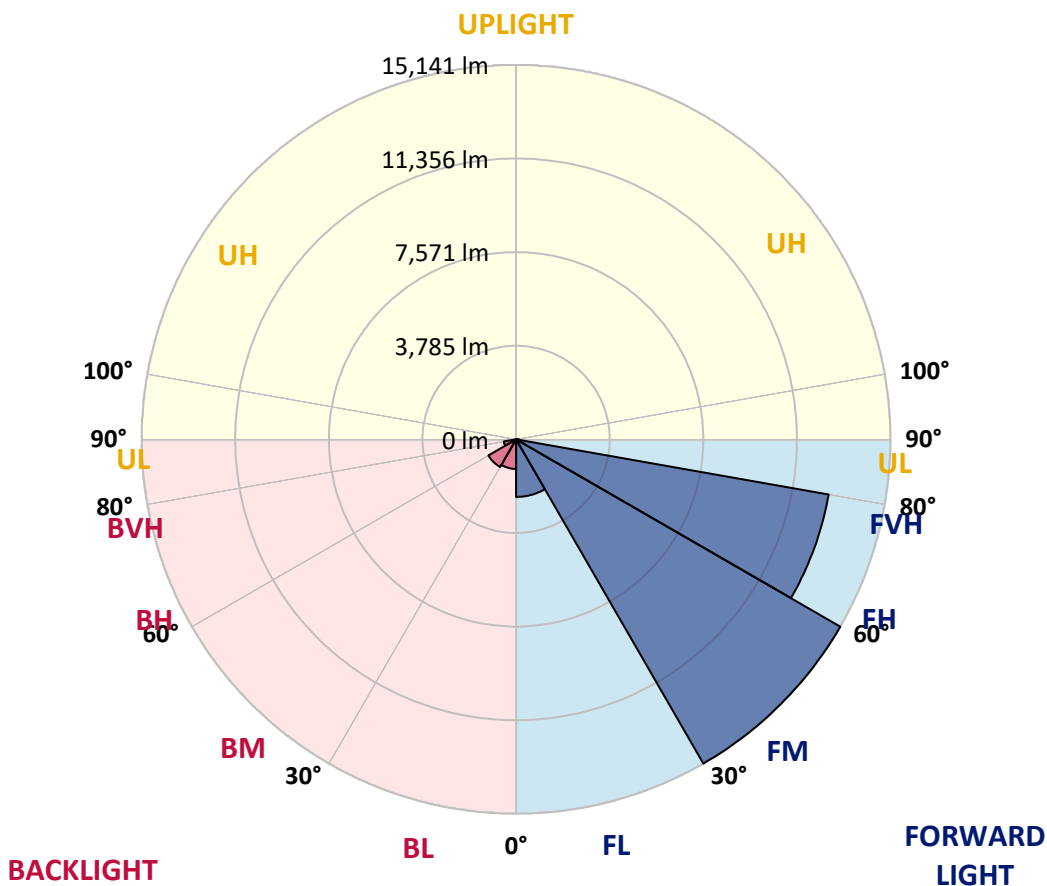
REPORT NUMBER: P641307

CATALOG NUMBER: GWS-SA5F-750-U-T3R-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2328.9	7.0			
FM (30°-60°)	15141.3	45.3			
FH (60°-80°)	12837.8	38.4			G5
FVH (80°-90°)	112.5	0.3			G2/225
BL (0°-30°)	1195.6	3.6	B3/2500		
BM (30°-60°)	1293.0	3.9	B2/2500		
BH (60°-80°)	500.7	1.5	B2/1000		G2/1000
BVH (80°-90°)	12.7	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





REPORT NUMBER: P641307

CATALOG NUMBER: GWS-SA5F-750-U-T3R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6026.4	6026.4	6026.4	6026.4	6026.4	6026.4	6026.4	6026.4	6026.4	6026.4	6026.4
2.5°	5610.2	5601.0	5607.1	5653.0	5738.7	5778.5	5845.8	5858.1	5913.2	5983.6	6011.1
5°	5245.9	5215.3	5230.6	5294.9	5392.9	5503.0	5628.5	5662.2	5799.9	5956.0	6072.3
7.5°	4912.3	4878.7	4915.4	5016.4	5154.1	5273.5	5460.2	5481.6	5702.0	5977.4	6188.6
10°	4389.0	4398.1	4471.6	4649.1	4860.3	5108.2	5359.2	5389.8	5662.2	6047.8	6375.3
12.5°	3988.0	3966.6	4046.2	4248.2	4545.1	4906.2	5282.7	5322.5	5665.3	6155.0	6614.1
15°	3801.3	3795.2	3828.9	3975.8	4263.5	4688.9	5212.3	5264.3	5705.0	6252.9	6840.5
17.5°	3807.4	3798.3	3795.2	3880.9	4095.1	4526.7	5135.8	5203.1	5738.7	6360.0	7079.3
20°	4073.7	4030.9	3954.4	3914.6	4043.1	4422.6	5083.7	5160.3	5787.7	6473.3	7333.3
22.5°	4630.8	4646.1	4441.0	4226.8	4165.5	4434.9	5077.6	5166.4	5894.8	6650.8	7645.5
25°	5744.8	5720.3	5340.8	4860.3	4526.7	4575.7	5184.7	5291.9	6106.0	6904.8	7939.3
27.5°	7140.5	7161.9	6641.6	5876.4	5178.6	4866.4	5380.6	5487.7	6350.8	7064.0	8135.2
30°	8661.6	8640.2	8083.2	7235.4	6102.9	5350.0	5576.5	5671.4	6473.3	7149.7	8337.2
32.5°	10100.1	10051.2	9500.2	8612.7	7281.3	6112.1	5845.8	5900.9	6635.5	7336.4	8609.6
35°	11327.5	11324.4	10843.9	9898.1	8493.3	7067.0	6308.0	6353.9	6938.5	7633.3	9010.5
37.5°	12594.6	12551.7	12013.0	11149.9	9739.0	8113.8	7015.0	6996.6	7415.9	8070.9	9503.3
40°	13635.2	13607.6	13194.4	12365.0	11033.6	9270.7	7872.0	7816.9	7982.2	8676.9	10188.9
42.5°	14406.5	14409.5	14281.0	13776.0	12404.8	10608.2	8949.3	8863.6	8860.6	9592.1	11094.8
45°	14991.0	15030.8	15223.7	15147.1	14023.9	12166.1	10329.7	10240.9	10091.0	10779.6	12132.4
47.5°	15263.4	15315.5	15897.0	16203.1	15441.0	13711.7	11973.2	11786.5	11492.7	12358.9	13292.4
50°	15235.9	15327.7	16138.8	17069.2	16726.4	15278.7	13763.7	13675.0	13194.4	14030.0	14440.1
52.5°	14611.5	14807.4	16154.1	17595.7	17715.0	16723.4	15615.4	15450.1	15217.5	15774.6	15517.5
55°	12915.9	13154.7	15508.3	17764.0	18486.3	17984.4	17427.3	17292.7	16907.0	17421.2	16457.1
57.5°	11994.7	12199.7	14149.4	17681.4	19141.3	19150.5	19040.3	18930.1	18611.8	19049.5	17558.9
60°	11440.7	11645.8	13424.0	17378.4	19735.0	20380.8	20555.3	20543.1	20084.0	20901.2	18850.5
62.5°	10629.6	10911.2	12668.0	16591.8	20157.4	21592.9	22119.3	22036.7	21525.5	22829.4	20129.9
65°	8992.2	9237.0	11119.3	15294.1	19909.5	22596.8	23814.9	23857.7	23267.0	24644.3	21139.9
67.5°	6304.9	6485.5	8355.6	12570.1	18226.2	22927.3	25550.3	25547.2	24540.3	25574.8	20693.0
70°	3654.4	3902.3	4936.8	7771.0	14180.0	21424.5	25810.4	25899.2	24023.0	23631.3	17124.3
72.5°	1414.0	1619.1	2797.4	4128.8	7394.5	16411.2	22201.9	22462.1	20105.4	18229.2	11918.2
75°	422.4	471.3	1316.1	2197.5	2968.8	7927.1	15030.8	15104.3	13791.3	11370.3	6109.1
77.5°	315.2	348.9	575.4	1111.0	1040.6	2402.6	7777.1	8493.3	7321.1	4061.5	1683.4
80°	214.2	254.0	410.1	541.7	385.6	639.7	2185.3	2399.5	2234.3	912.1	422.4
82.5°	94.9	122.4	290.8	272.4	140.8	183.6	673.3	716.2	462.2	275.5	146.9
85°	9.2	12.2	110.2	119.4	52.0	42.8	140.8	140.8	101.0	94.9	61.2
87.5°	0.0	0.0	3.1	6.1	6.1	9.2	12.2	15.3	18.4	24.5	30.6
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: P641307
 CATALOG NUMBER: GWS-SA5F-750-U-T3R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6026.4	6026.4	6026.4	6026.4	6026.4	6026.4	6026.4	6026.4	6026.4	6026.4	6026.4
2.5°	6081.5	6044.8	6090.7	6127.4	6136.6	6069.3	6029.5	5971.3	5959.1	5962.1	5946.8
5°	6164.1	6145.8	6179.4	6139.7	6035.6	5839.7	5671.4	5484.7	5383.7	5325.5	5319.4
7.5°	6317.2	6308.0	6271.3	6090.7	5766.3	5331.6	4912.3	4502.2	4248.2	4156.4	4141.1
10°	6543.7	6525.3	6375.3	5946.8	5255.1	4419.6	3715.6	3128.0	2769.9	2665.8	2537.3
12.5°	6803.8	6767.1	6439.6	5637.7	4483.8	3326.9	2448.5	1790.5	1481.4	1389.5	1389.5
15°	7054.8	6975.2	6402.9	5126.6	3535.0	2163.9	1368.1	1034.5	939.6	915.1	915.1
17.5°	7311.9	7158.9	6259.0	4428.8	2442.4	1279.4	912.1	847.8	835.6	838.6	841.7
20°	7553.7	7314.9	6005.0	3590.1	1557.9	893.7	817.2	801.9	795.8	801.9	798.8
22.5°	7816.9	7458.8	5619.3	2675.0	1013.1	805.0	777.4	765.2	759.0	768.2	768.2
25°	8077.0	7562.9	5108.2	1799.7	805.0	749.9	734.6	722.3	716.2	719.3	719.3
27.5°	8211.7	7523.1	4437.9	1147.7	722.3	694.8	679.5	664.2	655.0	651.9	655.0
30°	8303.5	7400.6	3617.7	817.2	655.0	621.3	606.0	593.8	569.3	554.0	560.1
32.5°	8447.4	7278.2	2727.0	685.6	599.9	547.9	523.4	492.8	459.1	443.8	443.8
35°	8618.8	7109.9	1912.9	618.3	541.7	486.6	440.7	388.7	348.9	336.7	336.7
37.5°	8845.3	6950.7	1273.2	572.3	492.8	434.6	370.3	309.1	266.3	260.2	257.1
40°	9185.0	6816.1	896.8	538.7	449.9	379.5	303.0	238.7	208.1	198.9	198.9
42.5°	9625.7	6678.3	710.1	505.0	413.2	327.5	241.8	189.8	165.3	159.2	156.1
45°	10170.5	6516.1	618.3	474.4	376.5	272.4	192.8	159.2	140.8	134.7	134.7
47.5°	10761.2	6295.7	575.4	434.6	333.6	220.4	162.2	137.7	128.5	125.5	122.4
50°	11342.8	5998.9	538.7	397.9	284.6	180.6	140.8	125.5	119.4	116.3	116.3
52.5°	11850.8	5653.0	492.8	355.0	232.6	156.1	125.5	116.3	110.2	104.1	101.0
55°	12285.4	5276.6	434.6	306.1	189.8	137.7	116.3	107.1	101.0	94.9	91.8
57.5°	12845.5	5062.3	348.9	247.9	156.1	122.4	107.1	97.9	91.8	82.6	82.6
60°	13466.8	4906.2	260.2	195.9	134.7	113.2	97.9	88.8	82.6	73.5	73.5
62.5°	13965.7	4673.6	205.1	159.2	116.3	101.0	88.8	79.6	73.5	64.3	64.3
65°	14155.5	4193.1	168.3	125.5	94.9	88.8	79.6	73.5	64.3	55.1	55.1
67.5°	13298.5	3232.0	140.8	101.0	79.6	76.5	70.4	67.3	55.1	49.0	45.9
70°	10531.7	1971.1	116.3	82.6	67.3	64.3	64.3	58.2	49.0	45.9	42.8
72.5°	7217.0	1016.1	94.9	67.3	58.2	58.2	55.1	52.0	45.9	42.8	42.8
75°	3749.3	339.7	73.5	52.0	45.9	49.0	49.0	45.9	42.8	42.8	39.8
77.5°	1074.3	153.0	55.1	39.8	36.7	36.7	39.8	39.8	39.8	36.7	36.7
80°	278.5	88.8	39.8	30.6	30.6	30.6	30.6	33.7	36.7	33.7	33.7
82.5°	113.2	49.0	27.5	24.5	24.5	24.5	24.5	27.5	30.6	30.6	30.6
85°	70.4	24.5	21.4	21.4	21.4	18.4	18.4	21.4	21.4	24.5	24.5
87.5°	42.8	18.4	18.4	18.4	18.4	15.3	15.3	15.3	15.3	15.3	15.3
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)