

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: P641248

Luminaire Tested: GWS-SA5F-740-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-740-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30642.1 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

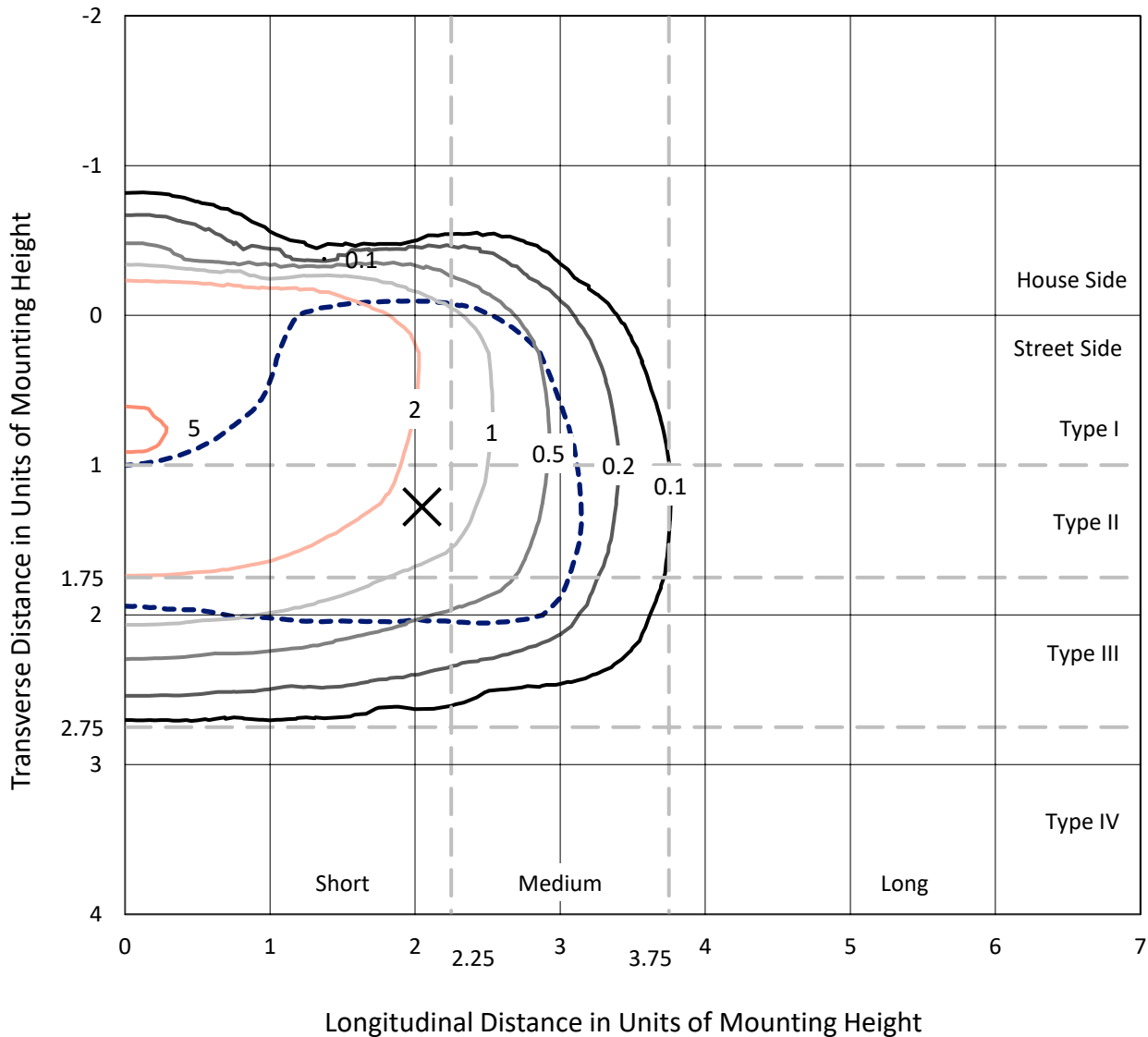
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641248
 CATALOG NUMBER: GWS-SA5F-740-U-T3-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

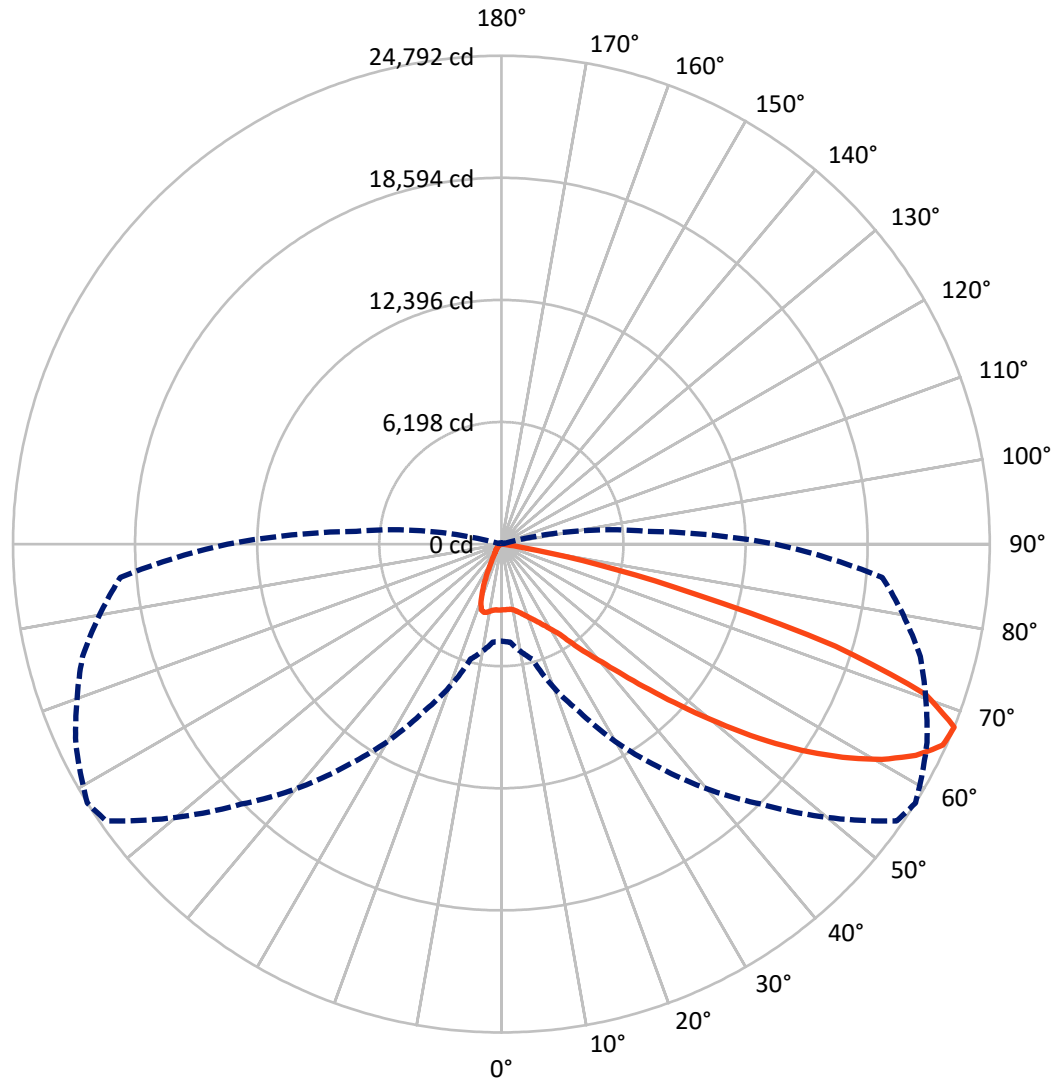
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - N/A

REPORT NUMBER: P641248
CATALOG NUMBER: GWS-SA5F-740-U-T3-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P641248

CATALOG NUMBER: GWS-SA5F-740-U-T3-W-HSS

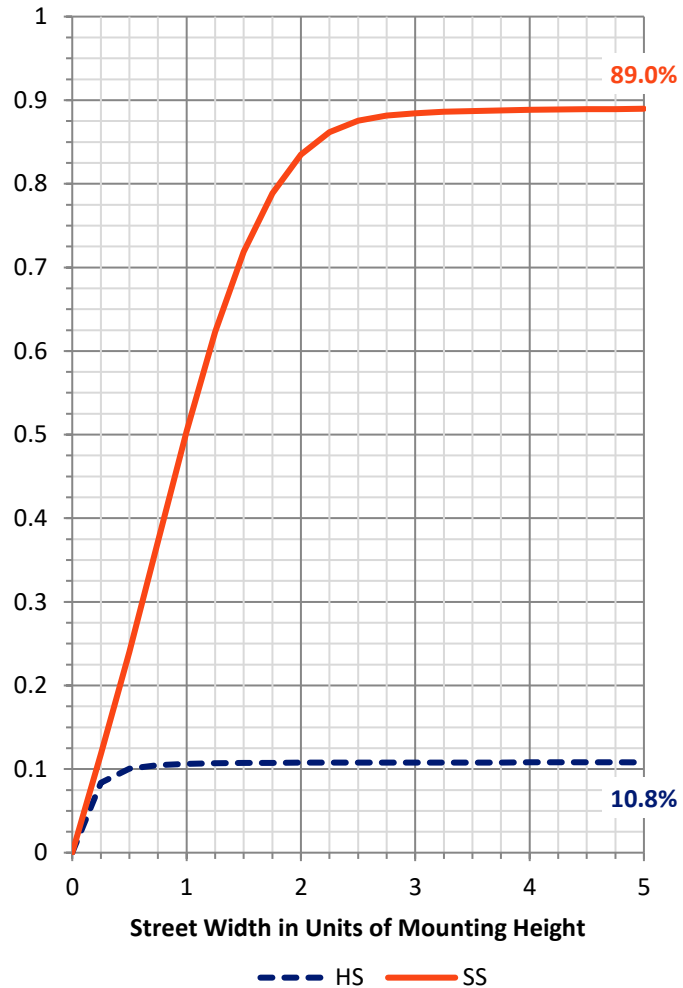
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3343.0	0.0	3343.0
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	27299.1	0.0	27299.1
	% Fixture	89.1	0.0	89.1
Total	Lumens	30642.1	0.0	30642.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.7	1.0
10°-20°	880.7	2.9
20°-30°	1537.3	5.0
30°-40°	2745.3	9.0
40°-50°	5018.0	16.4
50°-60°	8345.4	27.2
60°-70°	9064.5	29.6
70°-80°	2661.4	8.7
80°-90°	75.8	0.2
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°	30642.1	100.0
0°-180°	30642.1	100.0

Coefficient of Utilization



REPORT NUMBER: P641248

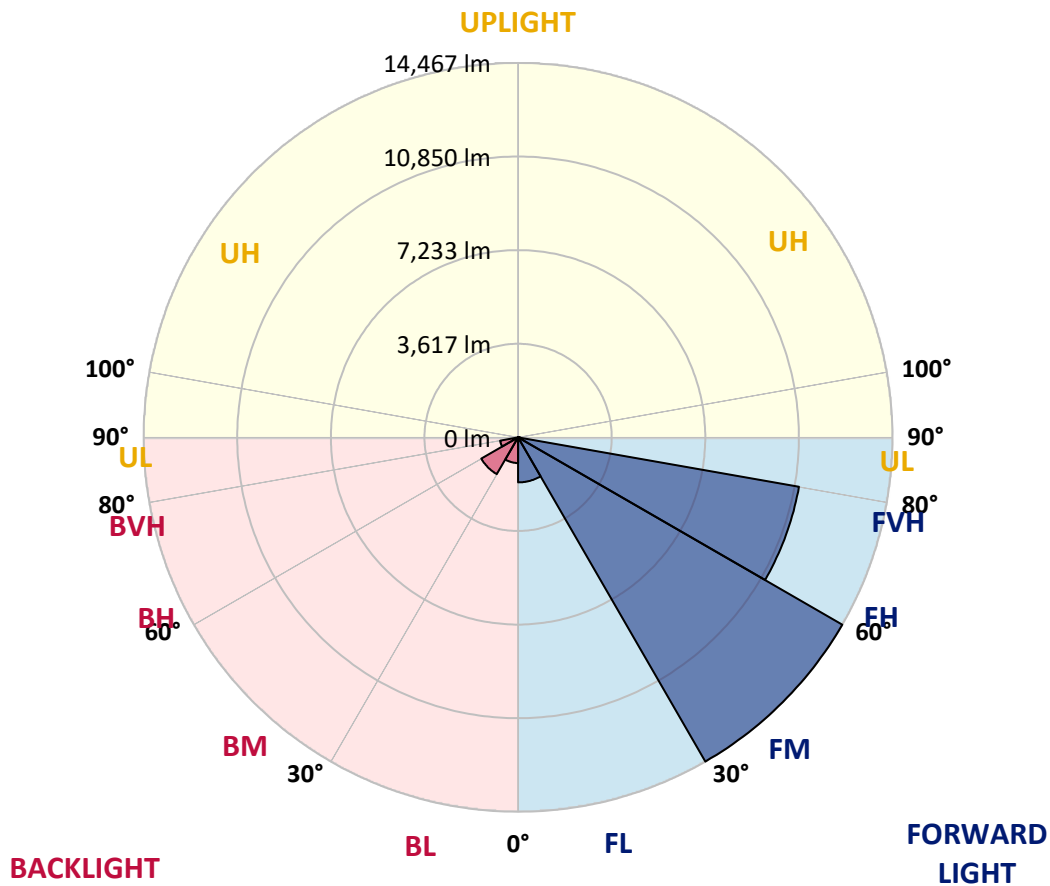
CATALOG NUMBER: GWS-SA5F-740-U-T3-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1740.0	5.7			
FM (30°-60°)	14466.8	47.2			
FH (60°-80°)	11020.3	36.0			G4/12000
FVH (80°-90°)	72.1	0.2			G1/100
BL (0°-30°)	991.6	3.2	B2/1000		
BM (30°-60°)	1642.0	5.4	B2/2500		
BH (60°-80°)	705.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.7	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: P641248

CATALOG NUMBER: GWS-SA5F-740-U-T3-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3339.1	3339.1	3339.1	3339.1	3339.1	3339.1	3339.1	3339.1	3339.1	3339.1	3339.1
2.5°	3276.2	3270.3	3270.3	3294.2	3297.2	3309.2	3336.1	3339.1	3354.0	3348.0	3327.1
5°	3105.7	3108.7	3126.6	3168.5	3204.4	3249.3	3315.1	3330.1	3363.0	3381.0	3369.0
7.5°	2947.1	2950.1	2977.0	3042.9	3111.7	3201.4	3309.2	3339.1	3404.9	3452.8	3455.8
10°	2887.3	2884.3	2911.2	2986.0	3075.8	3201.4	3357.0	3395.9	3494.7	3578.4	3593.4
12.5°	2905.2	2902.2	2929.2	2998.0	3096.7	3255.3	3440.8	3494.7	3620.3	3749.0	3775.9
15°	2977.0	2974.0	2992.0	3048.8	3156.6	3321.1	3548.5	3629.3	3787.9	3943.5	3985.3
17.5°	3192.5	3177.5	3159.6	3165.5	3228.4	3398.9	3686.1	3784.9	3982.4	4167.9	4203.8
20°	3575.4	3536.5	3488.7	3425.8	3395.9	3512.6	3844.7	3958.4	4197.8	4410.2	4416.2
22.5°	4152.9	4137.9	4027.2	3844.7	3716.1	3719.1	4030.2	4161.9	4455.1	4688.5	4655.6
25°	4957.7	4948.8	4778.2	4479.0	4143.9	4030.2	4266.6	4401.2	4760.3	5008.6	4903.9
27.5°	5957.1	5894.2	5693.8	5289.9	4790.2	4434.1	4565.8	4685.5	5083.4	5316.8	5119.3
30°	6827.7	6830.7	6642.2	6220.4	5657.9	5041.5	4930.8	5035.5	5379.6	5625.0	5385.6
32.5°	7665.5	7692.4	7486.0	7106.0	6489.7	5834.4	5454.4	5472.4	5759.6	6025.9	5735.7
35°	8443.4	8464.4	8320.8	7997.6	7423.2	6663.2	6184.5	6175.5	6331.1	6603.3	6223.4
37.5°	9314.1	9335.0	9194.4	8904.2	8365.6	7611.7	7013.3	7001.3	7064.1	7285.5	6851.7
40°	10241.6	10280.5	10124.9	9879.6	9365.0	8727.7	7976.7	7869.0	7806.1	8066.4	7665.5
42.5°	11181.1	11240.9	11187.1	10941.7	10501.9	9975.3	9227.3	9059.8	8925.1	9251.3	8826.4
45°	12348.0	12419.8	12395.9	12207.4	11866.3	11438.4	10732.3	10537.8	10475.0	10777.2	10271.5
47.5°	13470.0	13547.8	13634.5	13592.7	13350.3	13152.8	12368.9	12258.2	12240.3	12563.4	11779.5
50°	14304.8	14376.6	14708.7	14948.0	15112.6	15070.7	14391.5	14227.0	14200.0	14406.5	13371.3
52.5°	14903.2	14972.0	15429.8	16177.8	16782.1	17111.3	16426.1	16390.2	16243.6	16171.8	14861.3
55°	15366.9	15462.7	15944.4	17075.4	18293.1	19023.1	18595.3	18466.6	18089.6	17676.7	16243.6
57.5°	15459.7	15498.6	16177.8	17703.7	19466.0	20647.8	20647.8	20423.4	19696.3	19124.9	17841.3
60°	14627.9	14747.6	15666.1	17652.8	19968.6	21710.0	22350.2	22194.7	21213.3	20510.2	19379.2
62.5°	12781.8	12916.5	14035.5	16435.1	19466.0	21928.4	23639.8	23615.9	22508.8	21656.1	20653.8
65°	9801.8	9900.5	10875.9	13748.2	17341.6	21087.6	24561.3	24627.2	23532.1	22413.1	21093.6
67.5°	4924.8	4993.7	6046.8	9391.9	13745.3	18667.1	24498.5	24791.7	23843.3	22012.2	19415.1
70°	1720.4	1789.2	2285.9	4030.2	8365.6	14253.9	22380.2	22858.9	22015.1	18789.8	14322.7
72.5°	589.4	622.3	948.5	1496.0	3255.3	8449.4	17018.5	17739.6	16228.6	12614.3	8231.0
75°	335.1	356.0	508.6	810.8	1364.4	2779.6	9655.2	10098.0	9460.7	6875.6	3386.9
77.5°	227.4	245.3	317.2	460.8	754.0	894.6	3937.5	4957.7	4323.4	2244.0	864.7
80°	134.6	146.6	194.5	272.3	386.0	347.1	843.7	1122.0	1445.1	670.2	260.3
82.5°	62.8	71.8	125.7	179.5	194.5	146.6	248.3	302.2	406.9	329.1	107.7
85°	0.0	0.0	41.9	74.8	71.8	41.9	68.8	74.8	110.7	164.6	41.9
87.5°	0.0	0.0	0.0	0.0	0.0	3.0	6.0	9.0	18.0	32.9	18.0
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: P641248

CATALOG NUMBER: GWS-SA5F-740-U-T3-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3339.1	3339.1	3339.1	3339.1	3339.1	3339.1	3339.1	3339.1	3339.1	3339.1	3339.1
2.5°	3351.0	3330.1	3354.0	3342.1	3354.0	3351.0	3327.1	3312.1	3312.1	3285.2	3276.2
5°	3392.9	3372.0	3378.0	3351.0	3345.1	3330.1	3300.2	3288.2	3288.2	3261.3	3252.3
7.5°	3485.7	3452.8	3446.8	3392.9	3369.0	3327.1	3273.2	3252.3	3249.3	3222.4	3213.4
10°	3632.3	3593.4	3566.5	3497.6	3428.8	3345.1	3231.4	3135.6	3081.8	3010.0	3004.0
12.5°	3811.8	3763.9	3722.0	3617.3	3503.6	3315.1	2980.0	2630.0	2414.5	2244.0	2256.0
15°	4012.3	3967.4	3901.6	3743.0	3509.6	3018.9	2318.8	1780.2	1516.9	1376.3	1370.3
17.5°	4230.7	4164.9	4057.2	3841.7	3321.1	2306.8	1508.0	1065.2	927.5	879.6	867.7
20°	4434.1	4353.4	4218.7	3862.7	2776.6	1561.8	942.5	825.8	801.9	786.9	786.9
22.5°	4649.6	4547.8	4347.4	3701.1	2064.5	999.3	801.9	774.9	757.0	736.0	733.0
25°	4868.0	4736.3	4464.1	3279.2	1352.4	786.9	751.0	721.1	688.2	655.2	646.3
27.5°	5053.5	4882.9	4553.8	2650.9	867.7	709.1	685.2	634.3	589.4	553.5	547.5
30°	5274.9	5056.5	4592.7	1938.8	682.2	625.3	589.4	535.6	481.7	445.8	433.8
32.5°	5571.1	5331.7	4532.9	1262.6	604.4	550.5	493.7	430.8	377.0	338.1	332.1
35°	6031.9	5747.6	4257.6	804.8	547.5	475.7	406.9	341.1	296.2	266.3	260.3
37.5°	6594.4	6331.1	3805.8	604.4	490.7	412.9	332.1	269.3	236.4	215.4	209.4
40°	7429.1	7061.1	3246.3	529.6	433.8	350.1	272.3	221.4	197.5	179.5	173.5
42.5°	8512.2	7922.8	2603.0	481.7	380.0	293.2	221.4	182.5	161.6	149.6	146.6
45°	9777.9	8763.6	1923.9	433.8	329.1	242.4	182.5	149.6	134.6	125.7	122.7
47.5°	11073.4	9499.6	1328.4	383.0	281.2	200.5	152.6	128.7	116.7	104.7	101.7
50°	12455.7	10121.9	906.6	332.1	239.4	164.6	131.6	116.7	101.7	92.8	89.8
52.5°	13470.0	10352.3	631.3	287.2	203.5	140.6	116.7	104.7	92.8	80.8	77.8
55°	14406.5	10346.3	478.7	242.4	173.5	122.7	104.7	92.8	80.8	71.8	68.8
57.5°	15340.0	10265.6	377.0	206.4	149.6	110.7	92.8	80.8	74.8	62.8	59.8
60°	15944.4	9960.4	293.2	173.5	128.7	95.7	80.8	71.8	62.8	53.9	50.9
62.5°	16264.5	9535.5	224.4	137.6	104.7	83.8	71.8	62.8	53.9	44.9	41.9
65°	15830.7	8781.5	176.5	107.7	80.8	71.8	59.8	50.9	41.9	32.9	29.9
67.5°	13906.8	7405.2	137.6	86.8	62.8	53.9	50.9	41.9	29.9	23.9	20.9
70°	9828.7	5071.4	107.7	65.8	47.9	41.9	38.9	32.9	23.9	18.0	15.0
72.5°	5394.6	2558.2	77.8	47.9	35.9	32.9	29.9	26.9	20.9	15.0	15.0
75°	2076.4	703.1	56.8	32.9	23.9	23.9	20.9	20.9	18.0	12.0	12.0
77.5°	541.6	209.4	35.9	20.9	15.0	15.0	15.0	12.0	12.0	9.0	9.0
80°	173.5	68.8	20.9	15.0	12.0	9.0	9.0	6.0	9.0	6.0	6.0
82.5°	56.8	23.9	12.0	12.0	9.0	6.0	6.0	3.0	3.0	0.0	0.0
85°	20.9	12.0	9.0	6.0	6.0	6.0	3.0	0.0	0.0	0.0	0.0
87.5°	12.0	6.0	6.0	6.0	6.0	3.0	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)