

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: P638887

Luminaire Tested: GWS-SA4F-760-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638887
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-SA4F-760-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26872.2 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

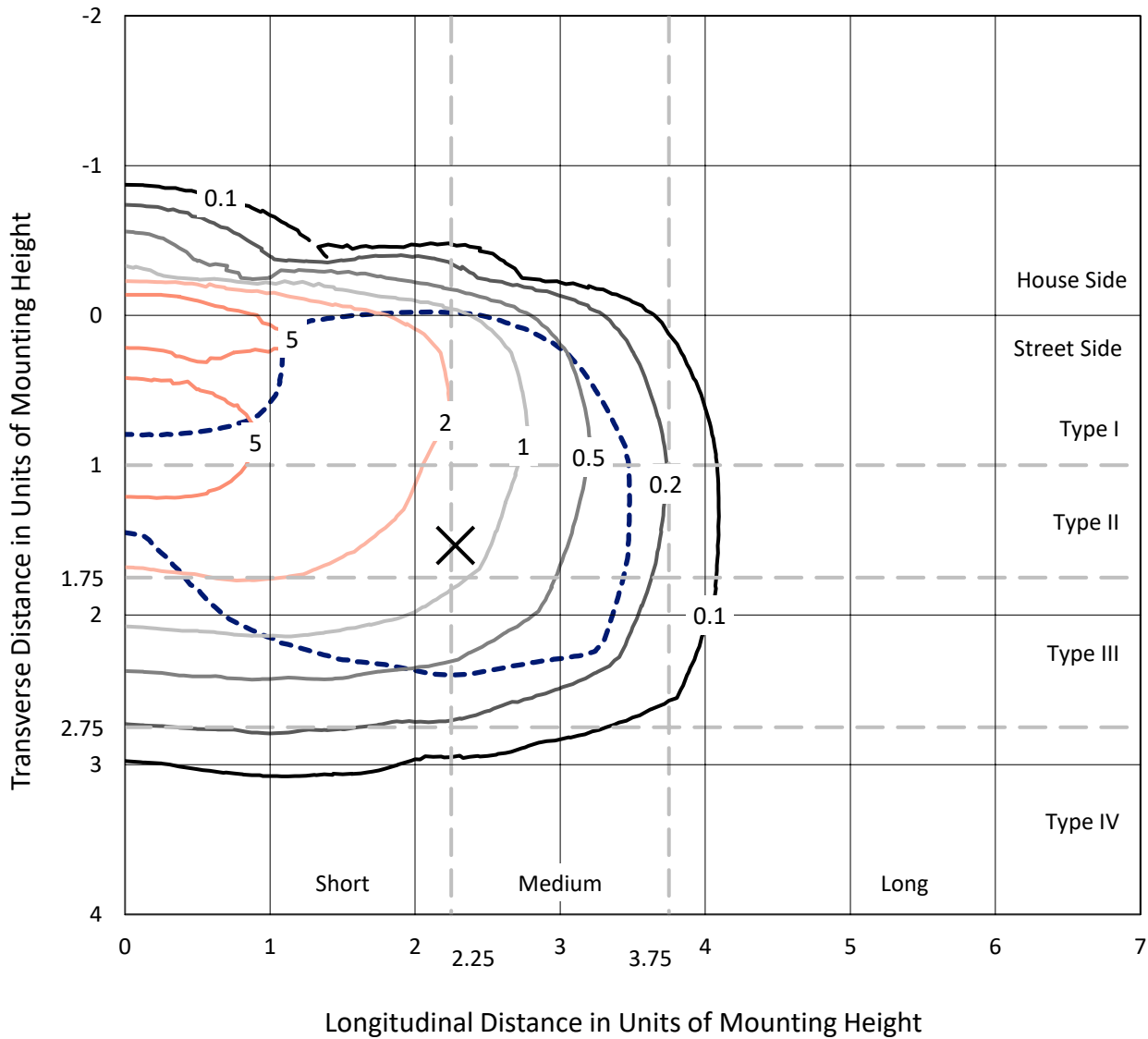
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638887
 CATALOG NUMBER: GWS-SA4F-760-U-T3R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

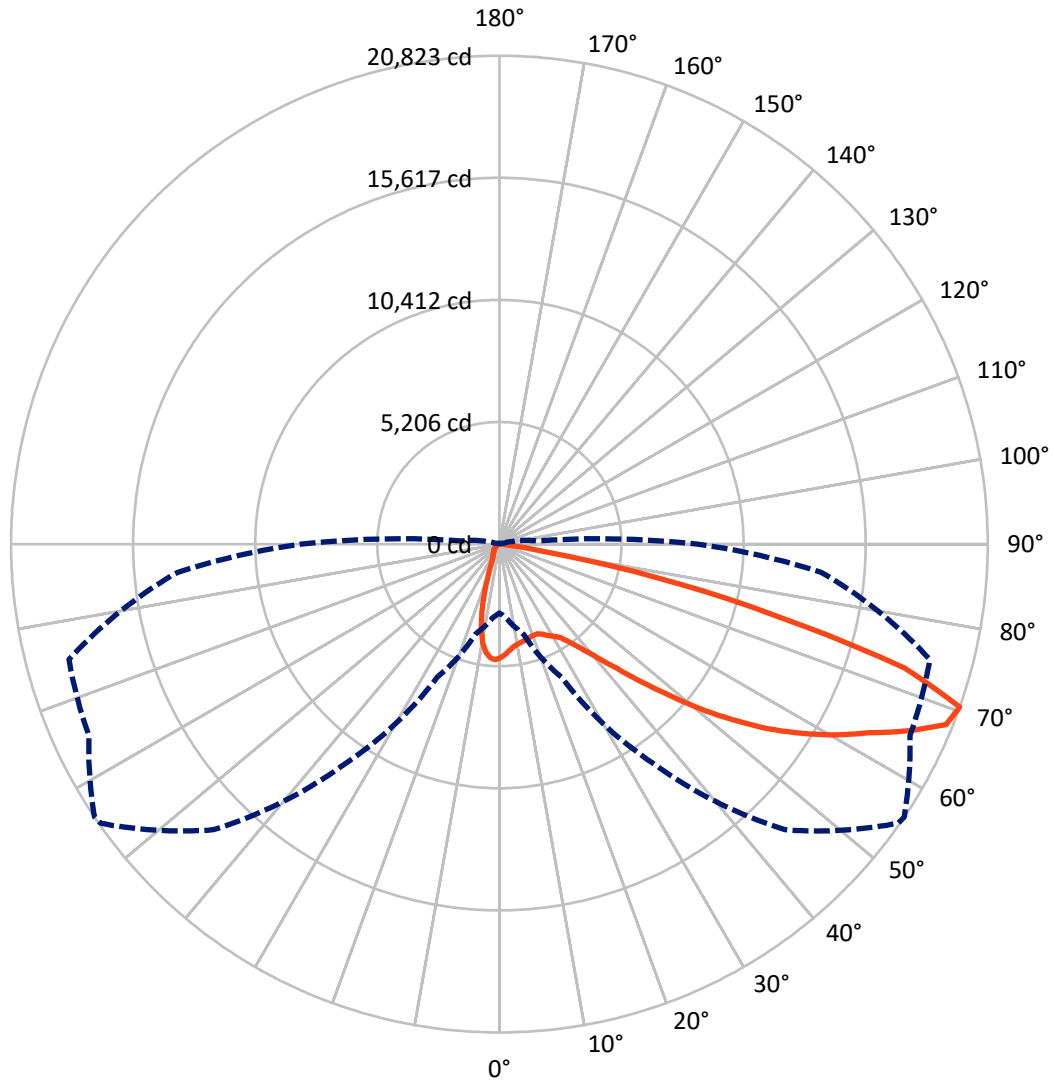
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P638887
CATALOG NUMBER: GWS-SA4F-760-U-T3R-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638887
 CATALOG NUMBER: GWS-SA4F-760-U-T3R-W-HSS

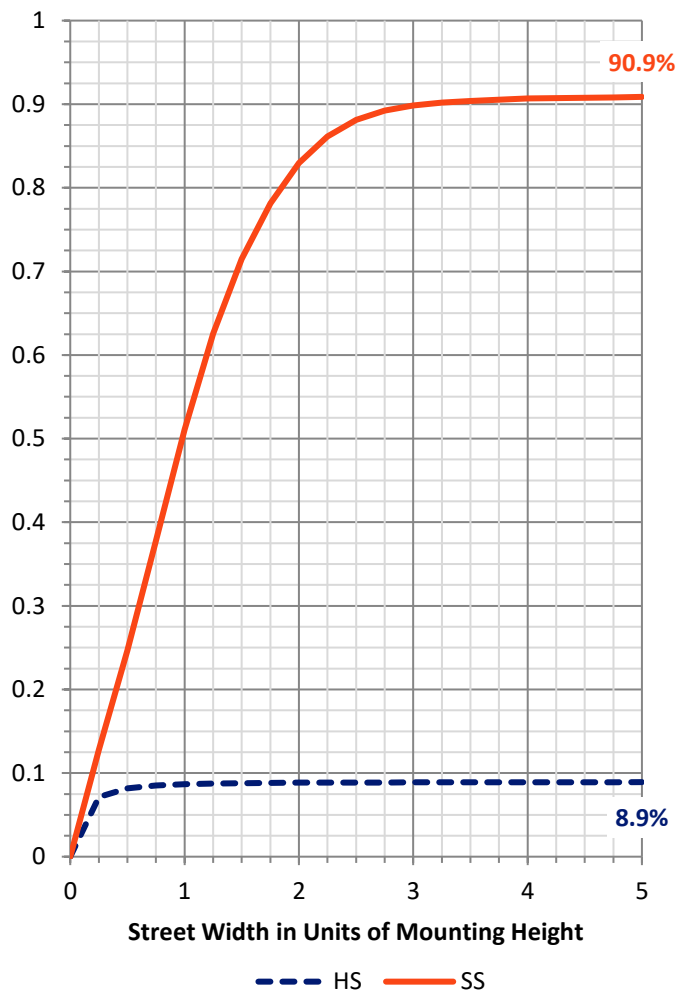
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2413.6	0.0	2413.6
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	24458.6	0.0	24458.6
	% Fixture	91.0	0.0	91.0
Total	Lumens	26872.2	0.0	26872.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.0	1.5
10°-20°	935.7	3.5
20°-30°	1482.1	5.5
30°-40°	2555.9	9.5
40°-50°	4316.0	16.1
50°-60°	6341.6	23.6
60°-70°	7518.3	28.0
70°-80°	3206.1	11.9
80°-90°	100.7	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°	26872.2	100.0
0°-180°	26872.2	100.0

Coefficient of Utilization



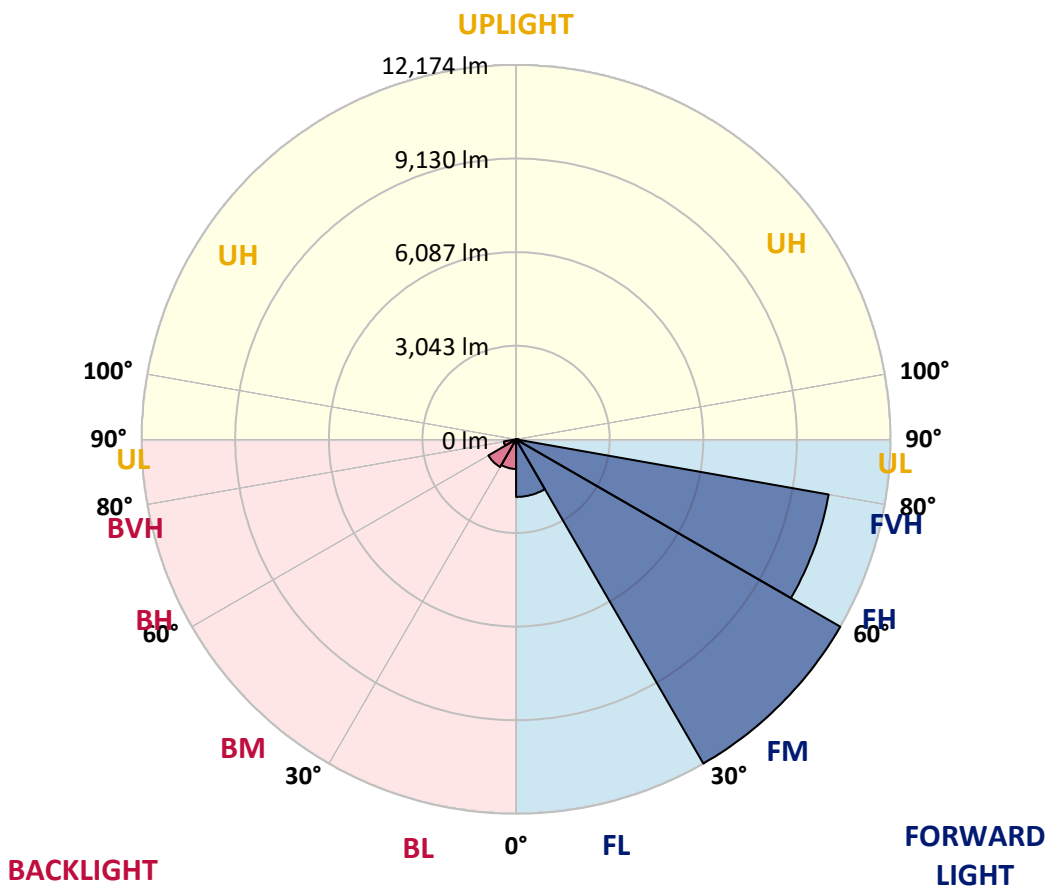
REPORT NUMBER: P638887

CATALOG NUMBER: GWS-SA4F-760-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°)	1872.5	7.0			
FM (30°-60°)	12173.8	45.3			
FH (60°-80°)	10321.8	38.4			G4/12000
FVH (80°-90°)	90.4	0.3			G1/100
BL (0°-30°)	961.3	3.6	B2/1000		
BM (30°-60°)	1039.6	3.9	B2/2500		
BH (60°-80°)	402.6	1.5	B1/500		G1/500
BVH (80°-90°)	10.2	0.0			G1/100
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 Medium





REPORT NUMBER: P638887

CATALOG NUMBER: GWS-SA4F-760-U-T3R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4845.3	4845.3	4845.3	4845.3	4845.3	4845.3	4845.3	4845.3	4845.3	4845.3	4845.3
2.5°	4510.7	4503.3	4508.2	4545.1	4614.0	4646.0	4700.1	4710.0	4754.3	4810.9	4833.0
5°	4217.8	4193.2	4205.5	4257.2	4335.9	4424.5	4525.4	4552.5	4663.2	4788.7	4882.2
7.5°	3949.6	3922.5	3952.1	4033.3	4144.0	4240.0	4390.1	4407.3	4584.5	4806.0	4975.8
10°	3528.8	3536.2	3595.2	3738.0	3907.8	4107.1	4308.9	4333.5	4552.5	4862.6	5125.9
12.5°	3206.4	3189.2	3253.2	3415.6	3654.3	3944.7	4247.4	4279.3	4555.0	4948.7	5317.8
15°	3056.3	3051.4	3078.5	3196.6	3427.9	3770.0	4190.8	4232.6	4586.9	5027.4	5499.9
17.5°	3061.2	3053.9	3051.4	3120.3	3292.6	3639.5	4129.2	4183.4	4614.0	5113.6	5691.8
20°	3275.3	3240.9	3179.4	3147.4	3250.7	3555.9	4087.4	4148.9	4653.4	5204.6	5896.1
22.5°	3723.2	3735.5	3570.6	3398.4	3349.2	3565.7	4082.5	4153.8	4739.5	5347.3	6147.1
25°	4618.9	4599.2	4294.1	3907.8	3639.5	3678.9	4168.6	4254.7	4909.3	5551.6	6383.3
27.5°	5741.1	5758.3	5340.0	4724.7	4163.7	3912.7	4326.1	4412.2	5106.2	5679.5	6540.8
30°	6964.1	6946.9	6499.0	5817.3	4906.8	4301.5	4483.6	4559.9	5204.6	5748.4	6703.2
32.5°	8120.7	8081.3	7638.3	6924.7	5854.3	4914.2	4700.1	4744.4	5335.0	5898.6	6922.2
35°	9107.4	9105.0	8718.6	7958.2	6828.7	5682.0	5071.7	5108.6	5578.6	6137.3	7244.6
37.5°	10126.2	10091.8	9658.7	8964.7	7830.3	6523.6	5640.2	5625.4	5962.5	6489.1	7640.8
40°	10962.9	10940.7	10608.5	9941.7	8871.2	7453.8	6329.2	6284.9	6417.8	6976.4	8192.0
42.5°	11583.0	11585.5	11482.1	11076.1	9973.6	8529.2	7195.4	7126.5	7124.0	7712.2	8920.4
45°	12053.0	12085.0	12240.1	12178.5	11275.4	9781.7	8305.2	8233.9	8113.3	8667.0	9754.6
47.5°	12272.0	12313.9	12781.4	13027.5	12414.8	11024.4	9626.7	9476.6	9240.3	9936.7	10687.3
50°	12249.9	12323.7	12975.8	13723.9	13448.3	12284.3	11066.2	10994.9	10608.5	11280.3	11610.1
52.5°	11747.9	11905.4	12988.1	14147.2	14243.1	13445.8	12555.0	12422.2	12235.1	12683.0	12476.3
55°	10384.6	10576.5	12468.9	14282.5	14863.3	14459.7	14011.8	13903.6	13593.5	14006.9	13231.8
57.5°	9643.9	9808.8	11376.3	14216.1	15389.9	15397.3	15308.7	15220.1	14964.2	15316.1	14117.6
60°	9198.5	9363.4	10793.1	13972.5	15867.3	16386.5	16526.8	16516.9	16147.8	16804.8	15156.1
62.5°	8546.4	8772.8	10185.3	13340.0	16206.9	17361.0	17784.2	17717.8	17306.9	18355.2	16184.7
65°	7229.8	7426.7	8940.1	12296.7	16007.5	18168.1	19147.5	19182.0	18707.1	19814.4	16996.8
67.5°	5069.3	5214.4	6718.0	10106.5	14654.1	18433.9	20542.8	20540.4	19730.7	20562.5	16637.5
70°	2938.2	3137.5	3969.3	6248.0	11400.9	17225.6	20752.0	20823.3	19314.9	18999.9	13768.2
72.5°	1136.9	1301.8	2249.2	3319.6	5945.3	13194.8	17850.7	18059.9	16165.0	14656.6	9582.4
75°	339.6	379.0	1058.1	1766.9	2387.0	6373.5	12085.0	12144.1	11088.4	9141.9	4911.8
77.5°	253.5	280.5	462.6	893.3	836.7	1931.7	6252.9	6828.7	5886.2	3265.5	1353.4
80°	172.3	204.2	329.7	435.6	310.1	514.3	1757.0	1929.3	1796.4	733.3	339.6
82.5°	76.3	98.4	233.8	219.0	113.2	147.6	541.4	575.8	371.6	221.5	118.1
85°	7.4	9.8	88.6	96.0	41.8	34.5	113.2	113.2	81.2	76.3	49.2
87.5°	0.0	0.0	2.5	4.9	4.9	7.4	9.8	12.3	14.8	19.7	24.6
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: P638887
 CATALOG NUMBER: GWS-SA4F-760-U-T3R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4845.3	4845.3	4845.3	4845.3	4845.3	4845.3	4845.3	4845.3	4845.3	4845.3	4845.3
2.5°	4889.6	4860.1	4897.0	4926.5	4933.9	4879.8	4847.8	4801.0	4791.2	4793.7	4781.3
5°	4956.1	4941.3	4968.4	4936.4	4852.7	4695.2	4559.9	4409.8	4328.6	4281.8	4276.9
7.5°	5079.1	5071.7	5042.2	4897.0	4636.2	4286.7	3949.6	3619.8	3415.6	3341.8	3329.5
10°	5261.2	5246.4	5125.9	4781.3	4225.2	3553.4	2987.4	2514.9	2227.0	2143.4	2040.0
12.5°	5470.4	5440.8	5177.5	4532.8	3605.1	2674.9	1968.6	1439.6	1191.0	1117.2	1117.2
15°	5672.2	5608.2	5148.0	4121.9	2842.2	1739.8	1100.0	831.8	755.5	735.8	735.8
17.5°	5878.9	5755.8	5032.3	3560.8	1963.7	1028.6	733.3	681.6	671.8	674.3	676.7
20°	6073.3	5881.3	4828.1	2886.5	1252.6	718.6	657.0	644.7	639.8	644.7	642.3
22.5°	6284.9	5997.0	4518.0	2150.7	814.5	647.2	625.0	615.2	610.3	617.7	617.7
25°	6494.1	6080.7	4107.1	1447.0	647.2	602.9	590.6	580.8	575.8	578.3	578.3
27.5°	6602.3	6048.7	3568.2	922.8	580.8	558.6	546.3	534.0	526.6	524.2	526.6
30°	6676.2	5950.2	2908.7	657.0	526.6	499.5	487.2	477.4	457.7	445.4	450.3
32.5°	6791.8	5851.8	2192.6	551.2	482.3	440.5	420.8	396.2	369.1	356.8	356.8
35°	6929.6	5716.5	1538.0	497.1	435.6	391.3	354.4	312.5	280.5	270.7	270.7
37.5°	7111.7	5588.5	1023.7	460.2	396.2	349.4	297.8	248.5	214.1	209.2	206.7
40°	7384.9	5480.2	721.0	433.1	361.7	305.1	243.6	191.9	167.3	160.0	160.0
42.5°	7739.2	5369.5	570.9	406.0	332.2	263.3	194.4	152.6	132.9	128.0	125.5
45°	8177.3	5239.1	497.1	381.4	302.7	219.0	155.0	128.0	113.2	108.3	108.3
47.5°	8652.2	5061.9	462.6	349.4	268.2	177.2	130.4	110.7	103.4	100.9	98.4
50°	9119.7	4823.2	433.1	319.9	228.9	145.2	113.2	100.9	96.0	93.5	93.5
52.5°	9528.2	4545.1	396.2	285.5	187.0	125.5	100.9	93.5	88.6	83.7	81.2
55°	9877.7	4242.4	349.4	246.1	152.6	110.7	93.5	86.1	81.2	76.3	73.8
57.5°	10328.0	4070.2	280.5	199.3	125.5	98.4	86.1	78.7	73.8	66.4	66.4
60°	10827.5	3944.7	209.2	157.5	108.3	91.0	78.7	71.4	66.4	59.1	59.1
62.5°	11228.7	3757.7	164.9	128.0	93.5	81.2	71.4	64.0	59.1	51.7	51.7
65°	11381.2	3371.3	135.3	100.9	76.3	71.4	64.0	59.1	51.7	44.3	44.3
67.5°	10692.2	2598.6	113.2	81.2	64.0	61.5	56.6	54.1	44.3	39.4	36.9
70°	8467.6	1584.8	93.5	66.4	54.1	51.7	51.7	46.8	39.4	36.9	34.5
72.5°	5802.6	817.0	76.3	54.1	46.8	46.8	44.3	41.8	36.9	34.5	34.5
75°	3014.5	273.1	59.1	41.8	36.9	39.4	39.4	36.9	34.5	34.5	32.0
77.5°	863.7	123.0	44.3	32.0	29.5	29.5	32.0	32.0	32.0	29.5	29.5
80°	223.9	71.4	32.0	24.6	24.6	24.6	24.6	27.1	29.5	27.1	27.1
82.5°	91.0	39.4	22.1	19.7	19.7	19.7	19.7	22.1	24.6	24.6	24.6
85°	56.6	19.7	17.2	17.2	17.2	14.8	14.8	17.2	17.2	19.7	19.7
87.5°	34.5	14.8	14.8	14.8	14.8	12.3	12.3	12.3	12.3	12.3	12.3
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)