

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: P643812

Luminaire Tested: GWS-SA6F-760-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-760-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39563.4 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

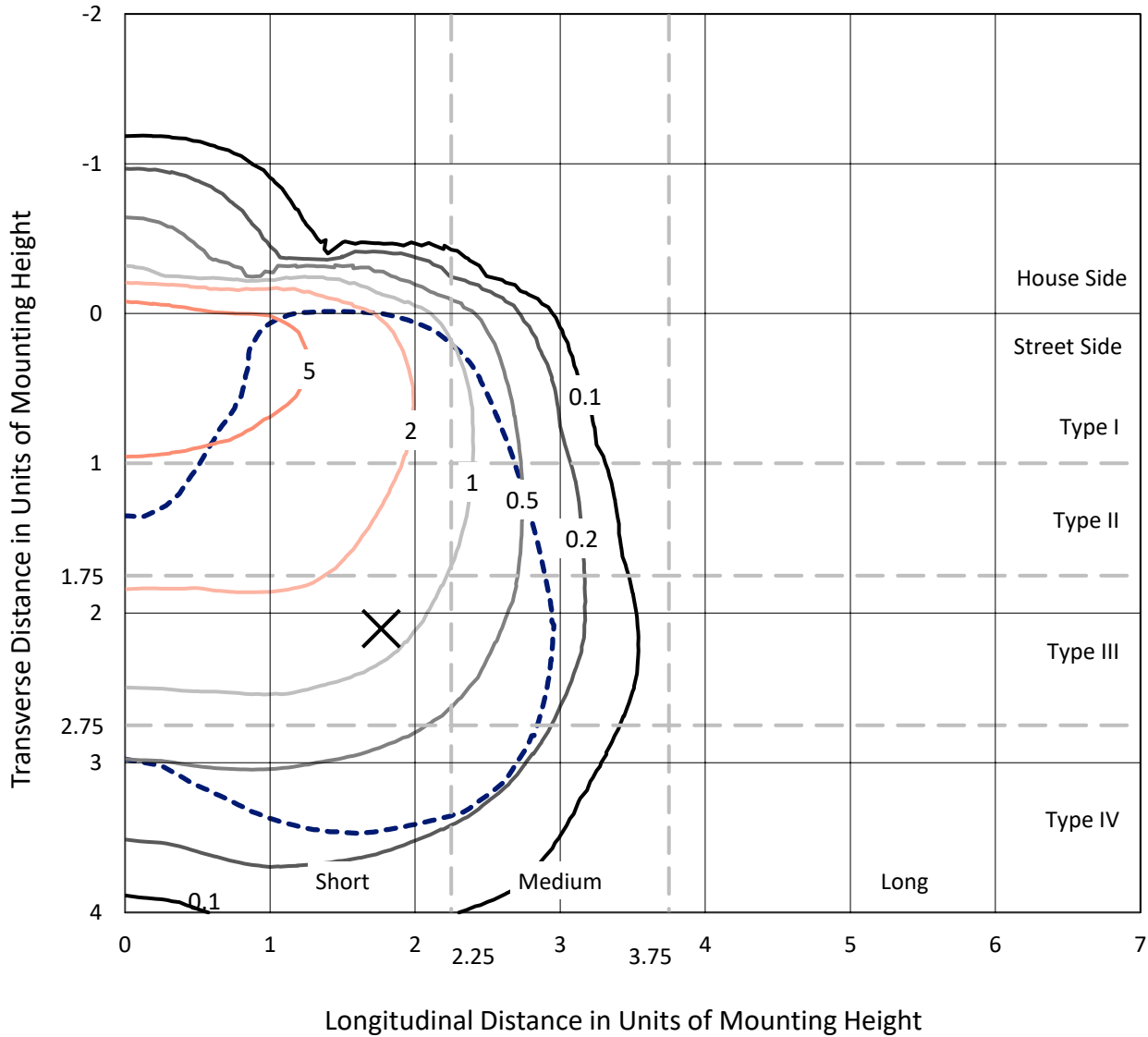
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

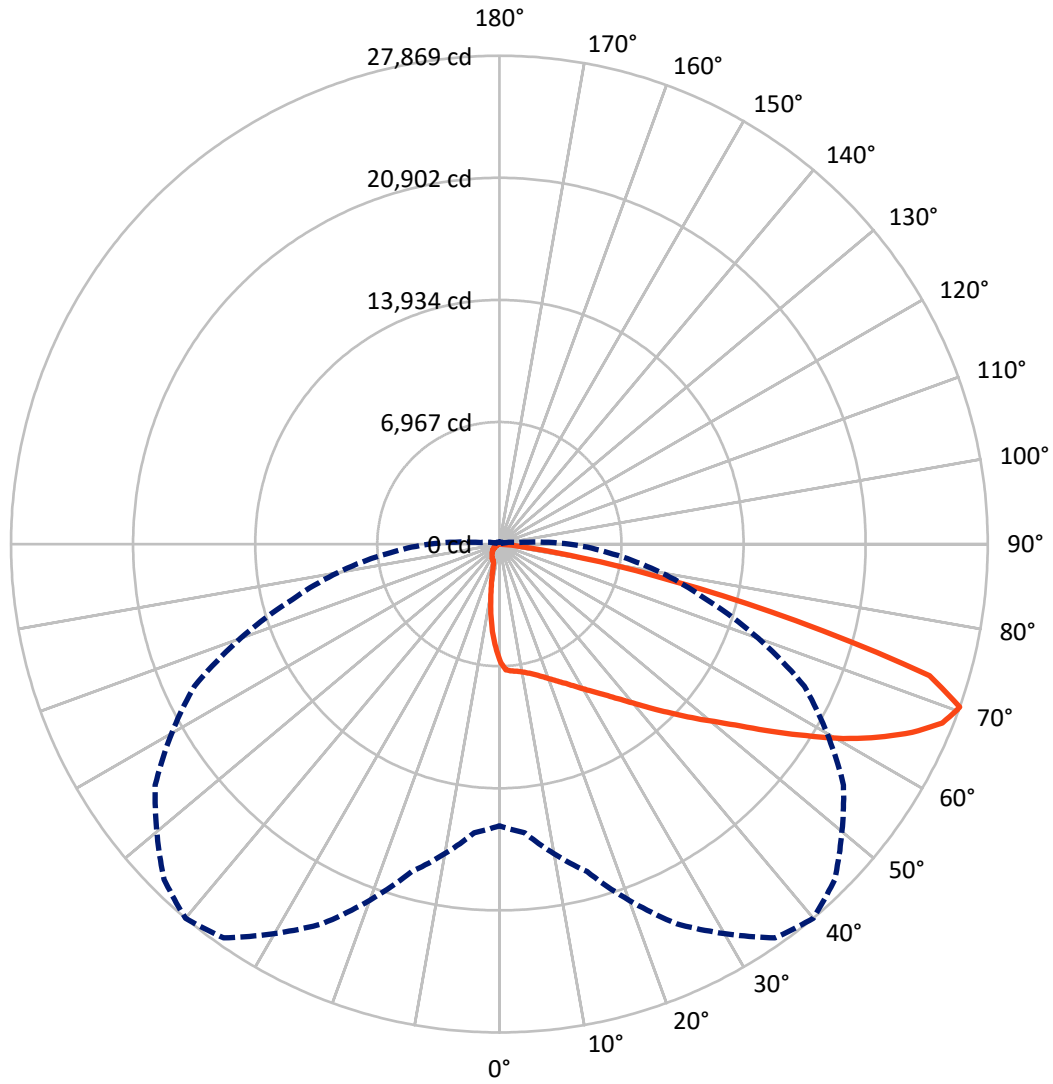
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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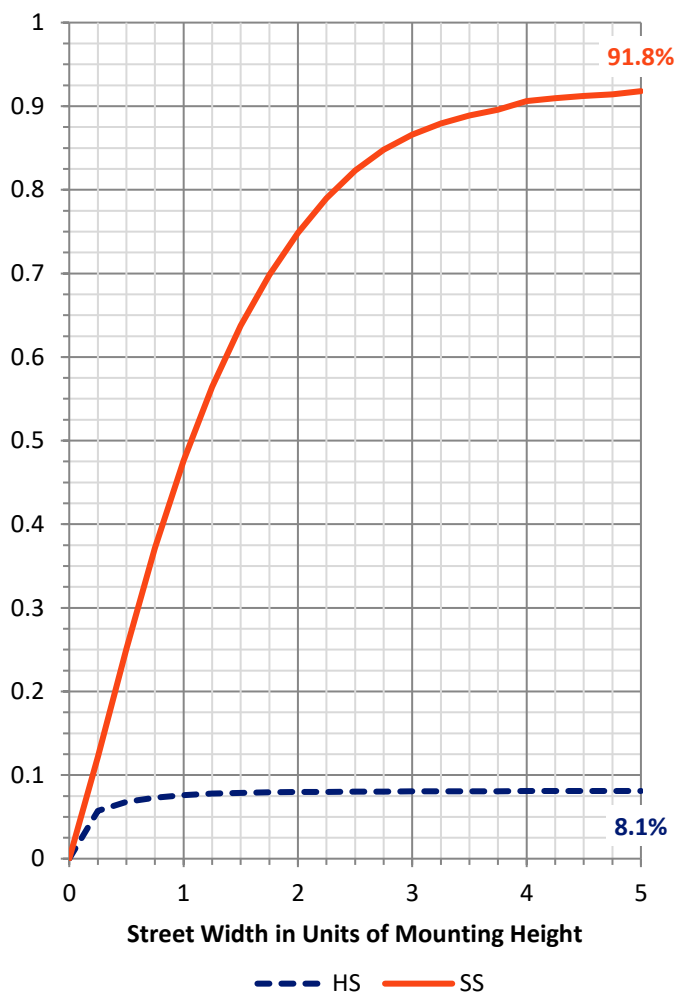
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3235.3	0.0	3235.3
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	36328.1	0.0	36328.1
	% Fixture	91.8	0.0	91.8
Total	Lumens	39563.4	0.0	39563.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.4	1.4
10°-20°	1439.1	3.6
20°-30°	2408.6	6.1
30°-40°	3783.0	9.6
40°-50°	5983.8	15.1
50°-60°	8728.8	22.1
60°-70°	10820.6	27.4
70°-80°	5474.6	13.8
80°-90°	357.4	0.9
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°	39563.4	100.0
0°-180°	39563.4	100.0

Coefficient of Utilization



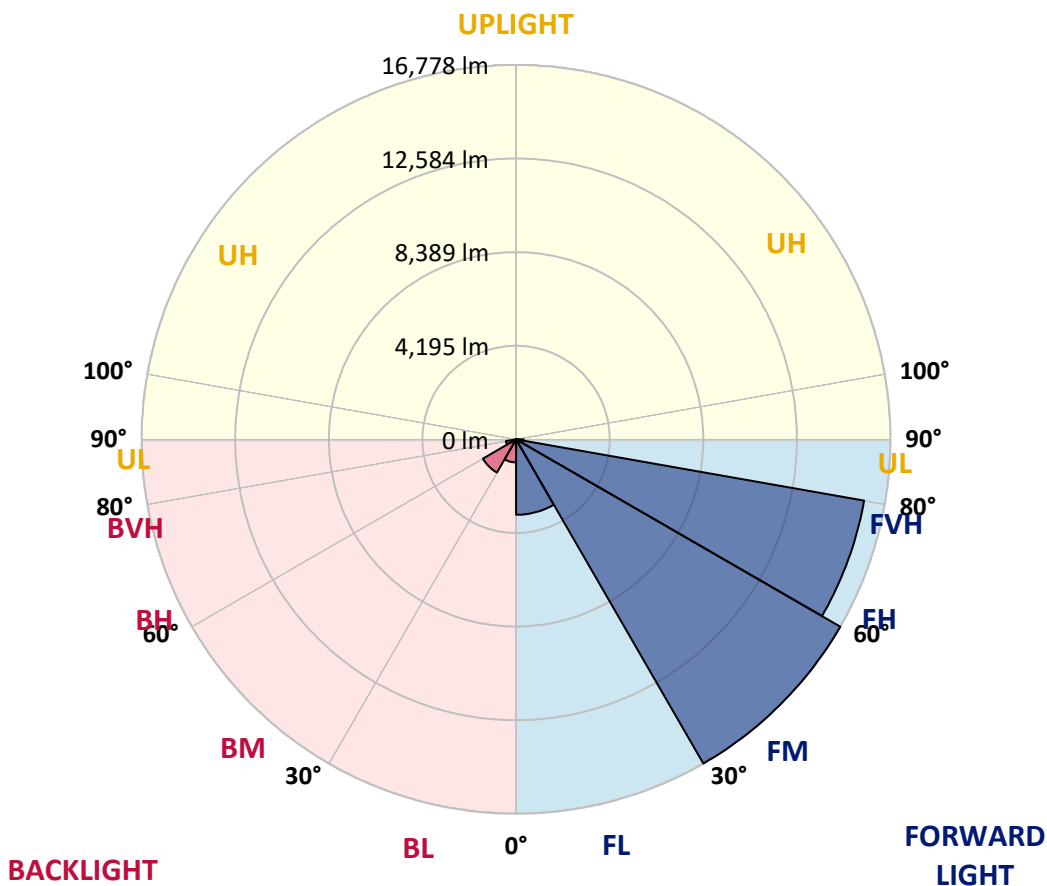
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3382.0	8.5			
FM (30°-60°)	16778.4	42.4			
FH (60°-80°)	15834.0	40.0			G5
FVH (80°-90°)	333.8	0.8			G3/500
BL (0°-30°)	1033.2	2.6	B3/2500		
BM (30°-60°)	1717.3	4.3	B2/2500		
BH (60°-80°)	461.3	1.2	B1/500		G1/500
BVH (80°-90°)	23.6	0.1			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	6713.4	6713.4	6713.4	6713.4	6713.4	6713.4	6713.4	6713.4	6713.4	6713.4	6713.4
2.5°	7217.4	7242.6	7239.0	7249.8	7224.6	7185.0	7177.8	7123.8	7026.6	6904.2	6767.4
5°	7365.0	7393.8	7372.2	7361.4	7314.6	7271.4	7260.6	7203.0	7091.4	6925.8	6688.2
7.5°	7491.0	7498.2	7483.8	7458.6	7390.2	7332.6	7293.0	7213.8	7080.6	6915.0	6641.4
10°	7512.6	7509.0	7516.2	7519.8	7476.6	7426.2	7393.8	7285.8	7116.6	6940.2	6645.0
12.5°	7487.4	7487.4	7534.2	7588.2	7588.2	7563.0	7530.6	7433.4	7235.4	7026.6	6717.0
15°	7519.8	7530.6	7620.6	7721.3	7753.7	7728.5	7714.2	7613.4	7408.2	7177.8	6846.6
17.5°	7635.0	7645.8	7789.7	7940.9	7980.5	7951.7	7922.9	7822.1	7602.6	7350.6	6994.2
20°	7804.1	7832.9	8016.5	8210.9	8246.9	8210.9	8153.3	8012.9	7793.3	7537.8	7134.6
22.5°	8113.7	8131.7	8329.7	8534.9	8552.9	8495.3	8408.9	8214.5	7984.1	7735.7	7293.0
25°	8524.1	8549.3	8747.3	8945.2	8898.5	8812.1	8693.3	8473.7	8210.9	7969.7	7494.6
27.5°	9013.6	9042.4	9236.8	9409.6	9287.2	9186.4	9053.2	8779.7	8513.3	8293.7	7753.7
30°	9542.8	9568.0	9740.8	9895.6	9733.6	9614.8	9456.4	9175.6	8905.7	8740.1	8120.9
32.5°	10054.0	10050.4	10215.9	10341.9	10176.3	10082.8	9938.8	9654.4	9438.4	9366.4	8668.1
35°	10529.1	10529.1	10665.9	10791.9	10673.1	10622.7	10489.5	10262.7	10140.3	10226.7	9398.8
37.5°	11007.9	10982.7	11112.3	11252.7	11241.9	11245.5	11169.9	11061.9	11069.1	11375.0	10403.1
40°	11403.8	11393.0	11544.2	11727.8	11871.8	11987.0	11940.2	11979.8	12206.6	12778.9	11688.2
42.5°	11720.6	11745.8	11940.2	12231.8	12595.3	12829.3	12861.7	13023.7	13606.9	14492.4	13138.9
45°	12084.2	12087.8	12357.8	12804.1	13383.7	13754.4	13884.0	14301.6	15129.5	16270.6	14730.0
47.5°	12530.5	12487.3	12789.7	13416.1	14254.8	14802.0	15032.3	15554.3	16835.8	18005.7	16025.9
50°	13023.7	12944.5	13286.5	14139.6	15230.3	15914.3	16382.2	17145.4	18527.6	19431.2	16990.6
52.5°	13596.1	13520.5	13909.2	14971.1	16400.2	17231.7	17832.9	18603.2	19978.3	20518.3	17566.5
55°	14323.2	14247.6	14658.0	15968.3	17782.5	18862.4	19492.4	20140.3	21328.2	21321.0	17984.1
57.5°	15129.5	15025.1	15593.9	17228.1	19506.8	20629.9	21270.6	21587.4	22354.1	21943.8	18264.9
60°	16054.6	15961.1	16749.4	18729.2	21497.4	22537.7	22940.9	22811.3	23196.4	22310.9	18167.7
62.5°	16889.8	16846.6	17825.7	20320.3	23394.4	24272.8	24384.3	23819.2	23815.6	22318.1	17512.5
65°	17757.3	17840.1	19294.4	22152.5	25302.3	25892.6	25701.8	24819.9	24064.0	21436.2	15575.9
67.5°	18081.3	18322.5	20262.7	23808.4	26806.9	27267.7	26932.9	25320.3	23030.9	18470.0	11861.0
70°	16079.8	16533.4	19348.4	23902.0	27429.7	27868.9	27066.1	23974.0	19200.8	12235.4	6497.5
72.5°	12228.2	12757.3	16123.0	19571.6	24668.7	25669.4	24298.0	19532.0	12375.8	5359.9	2181.4
75°	6843.0	7415.4	12008.6	14737.2	16562.2	17476.5	16972.6	12530.5	5482.3	1400.3	651.5
77.5°	2314.6	2505.4	5586.7	9118.0	10932.3	10111.5	8560.1	6223.9	2015.8	532.8	345.6
80°	1371.5	1443.5	2080.6	4539.2	5752.3	4769.6	3765.3	2300.2	1025.9	284.4	241.2
82.5°	410.4	486.0	1148.3	1684.7	2253.4	1403.9	1187.9	1313.9	532.8	154.8	201.6
85°	0.0	0.0	244.8	522.0	590.4	230.4	230.4	745.1	97.2	64.8	147.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.6	18.0	10.8	14.4	32.4
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°	6713.4	6713.4	6713.4	6713.4	6713.4	6713.4	6713.4	6713.4	6713.4	6713.4	6713.4
2.5°	6670.2	6544.2	6396.7	6256.3	6123.1	5950.3	5867.5	5766.7	5680.3	5633.5	5658.7
5°	6537.0	6339.1	6036.7	5730.7	5421.1	5129.6	4866.8	4690.4	4532.0	4449.2	4467.2
7.5°	6421.9	6155.5	5683.9	5183.6	4686.8	4186.4	3779.7	3462.9	3218.1	3117.3	3099.3
10°	6371.5	6036.7	5370.7	4650.8	3887.7	3214.5	2638.6	2289.4	2041.0	1918.6	1940.2
12.5°	6396.7	5975.5	5104.4	4128.9	3138.9	2354.2	1803.4	1475.9	1299.5	1227.5	1209.5
15°	6468.7	5961.1	4866.8	3596.1	2422.6	1645.1	1245.5	1112.3	1076.3	1069.1	1069.1
17.5°	6551.4	5964.7	4622.0	3056.1	1839.4	1220.3	1065.5	1040.3	1029.5	1022.3	1025.9
20°	6634.2	5964.7	4341.2	2509.0	1382.3	1054.7	1015.1	997.1	986.3	982.7	982.7
22.5°	6735.0	5964.7	4028.1	2001.4	1108.7	1000.7	968.3	957.5	946.7	943.1	939.5
25°	6857.4	5968.3	3682.5	1565.9	1007.9	953.9	928.7	917.9	907.1	899.9	899.9
27.5°	7033.8	5997.1	3300.9	1220.3	950.3	910.7	889.1	878.3	867.5	856.7	856.7
30°	7289.4	6069.1	2872.6	1007.9	896.3	863.9	842.3	835.1	824.3	813.5	809.9
32.5°	7671.0	6195.1	2429.8	903.5	845.9	813.5	788.3	781.1	770.3	759.5	755.9
35°	8203.7	6425.5	1997.8	838.7	781.1	748.7	734.3	730.7	716.3	705.5	705.5
37.5°	8984.8	6799.8	1583.9	773.9	727.1	701.9	683.9	676.7	662.3	651.5	647.9
40°	9938.8	7285.8	1231.1	723.5	676.7	651.5	633.5	622.7	604.7	590.4	583.2
42.5°	11155.5	7879.7	971.9	669.5	629.9	604.7	590.4	568.8	543.6	522.0	518.4
45°	12422.6	8491.7	802.7	619.1	586.8	565.2	547.2	518.4	482.4	457.2	450.0
47.5°	13394.5	8873.3	701.9	565.2	540.0	522.0	500.4	464.4	421.2	392.4	385.2
50°	14089.2	8930.8	626.3	514.8	500.4	482.4	450.0	406.8	360.0	331.2	324.0
52.5°	14431.2	8671.7	565.2	468.0	457.2	439.2	399.6	352.8	302.4	273.6	266.4
55°	14586.0	8182.1	507.6	428.4	414.0	392.4	349.2	298.8	248.4	223.2	216.0
57.5°	14524.8	7458.6	457.2	388.8	370.8	345.6	298.8	244.8	205.2	180.0	176.4
60°	14071.2	6443.5	406.8	349.2	327.6	298.8	252.0	201.6	165.6	147.6	144.0
62.5°	13092.1	5183.6	356.4	302.4	288.0	259.2	216.0	165.6	136.8	126.0	122.4
65°	11087.1	3664.5	306.0	255.6	248.4	219.6	180.0	136.8	118.8	111.6	108.0
67.5°	7969.7	2228.2	259.2	219.6	212.4	187.2	151.2	118.8	108.0	104.4	104.4
70°	4006.5	1054.7	205.2	180.0	180.0	154.8	129.6	108.0	104.4	100.8	100.8
72.5°	1360.7	450.0	154.8	140.4	147.6	133.2	111.6	100.8	100.8	100.8	100.8
75°	464.4	237.6	108.0	100.8	108.0	108.0	97.2	97.2	100.8	100.8	100.8
77.5°	302.4	158.4	75.6	68.4	82.8	82.8	82.8	90.0	97.2	97.2	97.2
80°	248.4	86.4	50.4	46.8	61.2	61.2	68.4	82.8	90.0	90.0	90.0
82.5°	212.4	54.0	28.8	32.4	43.2	46.8	57.6	68.4	79.2	82.8	82.8
85°	144.0	28.8	21.6	25.2	28.8	36.0	46.8	57.6	64.8	72.0	72.0
87.5°	39.6	10.8	14.4	18.0	18.0	25.2	36.0	43.2	50.4	54.0	54.0
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)