

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: P643727

Luminaire Tested: GWS-SA6F-740-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643727
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-SAGF-740-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38961.2 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

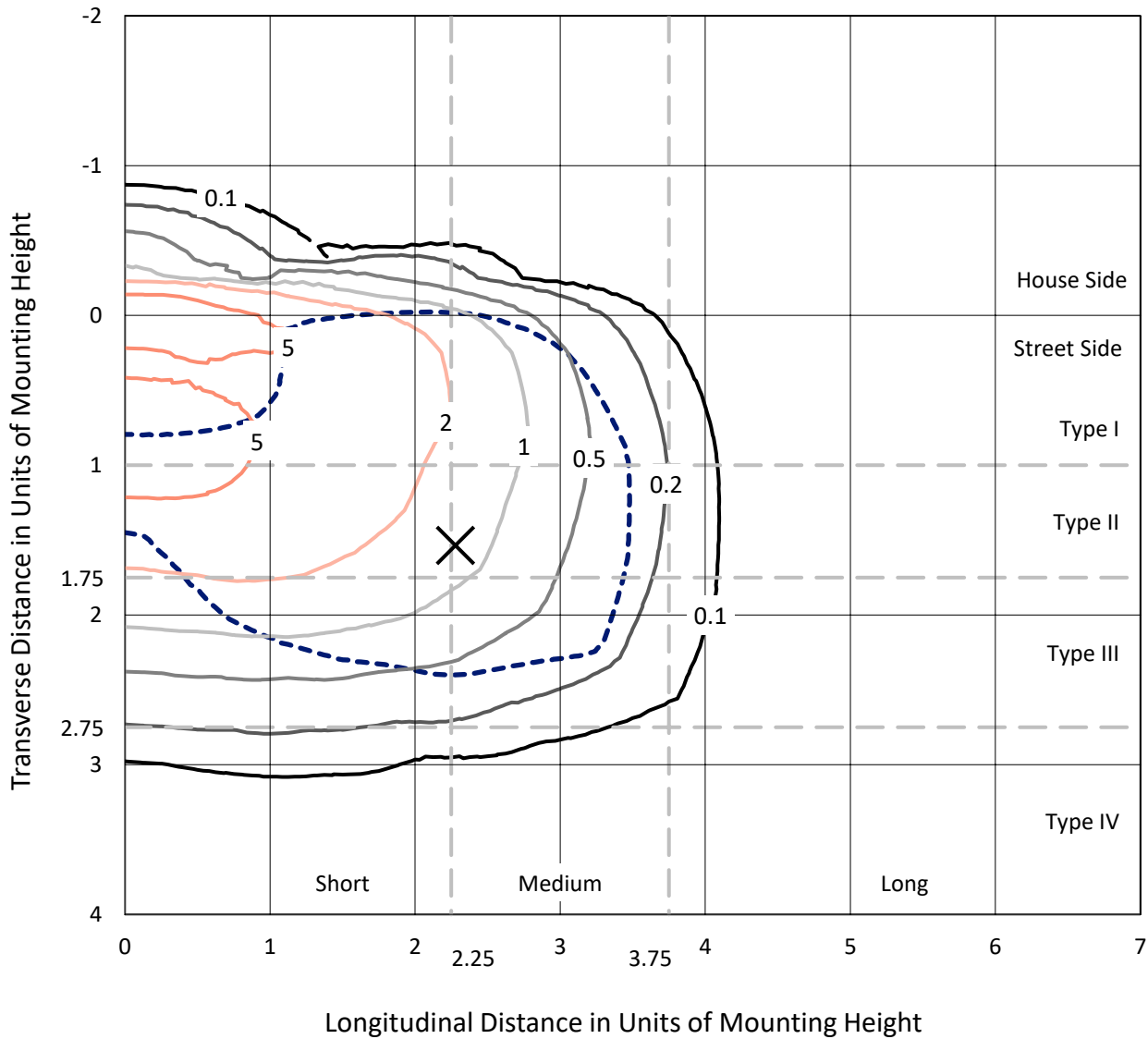
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

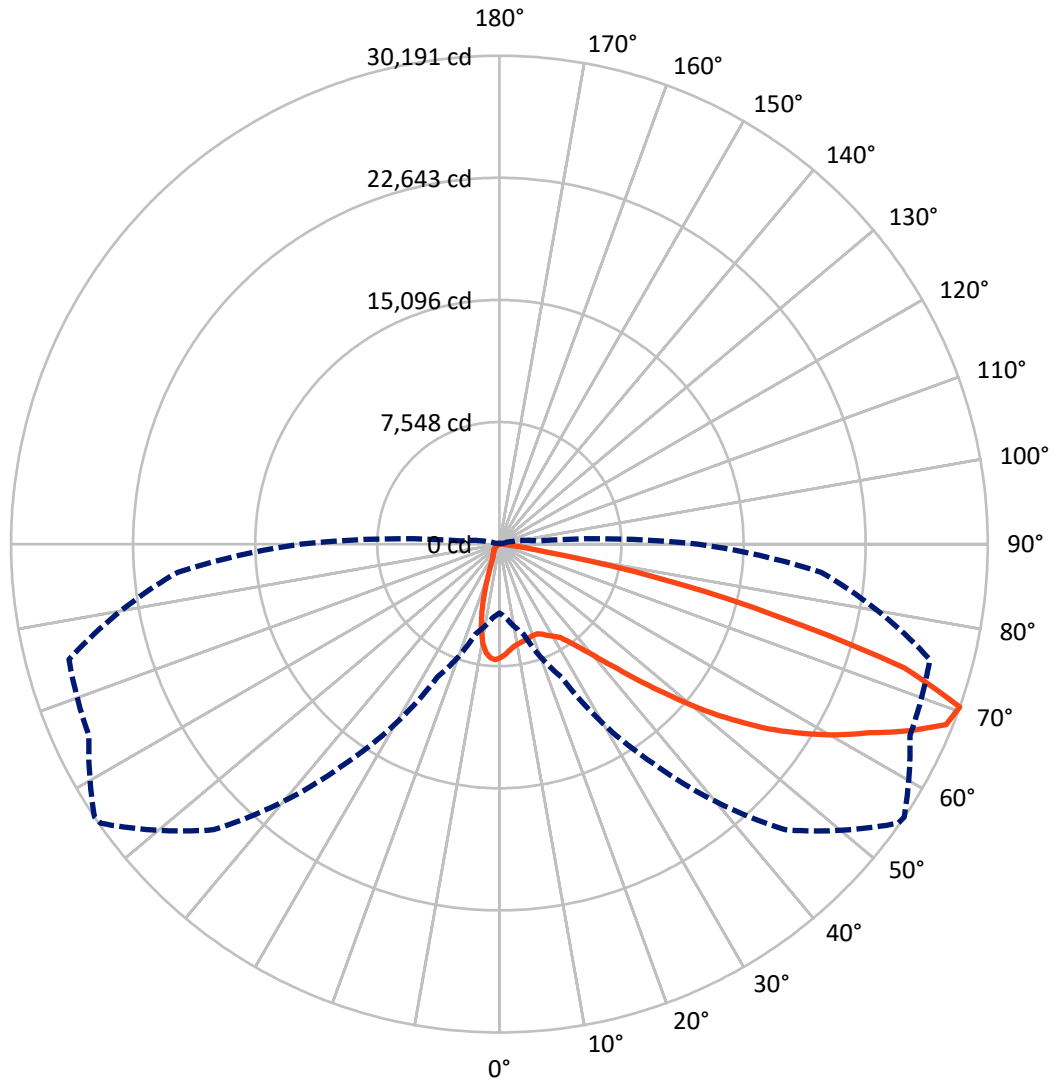
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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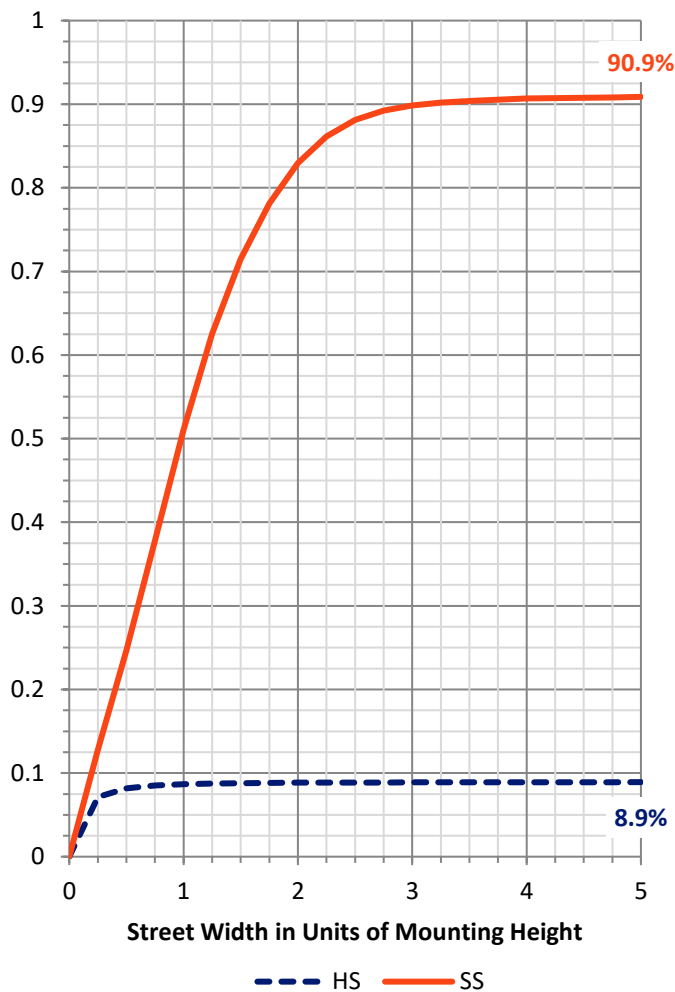
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3499.5	0.0	3499.5
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	35461.7	0.0	35461.7
	% Fixture	91.0	0.0	91.0
Total	Lumens	38961.2	0.0	38961.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	603.2	1.5
10°-20°	1356.6	3.5
20°-30°	2148.8	5.5
30°-40°	3705.7	9.5
40°-50°	6257.6	16.1
50°-60°	9194.5	23.6
60°-70°	10900.5	28.0
70°-80°	4648.4	11.9
80°-90°	146.0	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°	38961.2	100.0
0°-180°	38961.2	100.0

Coefficient of Utilization

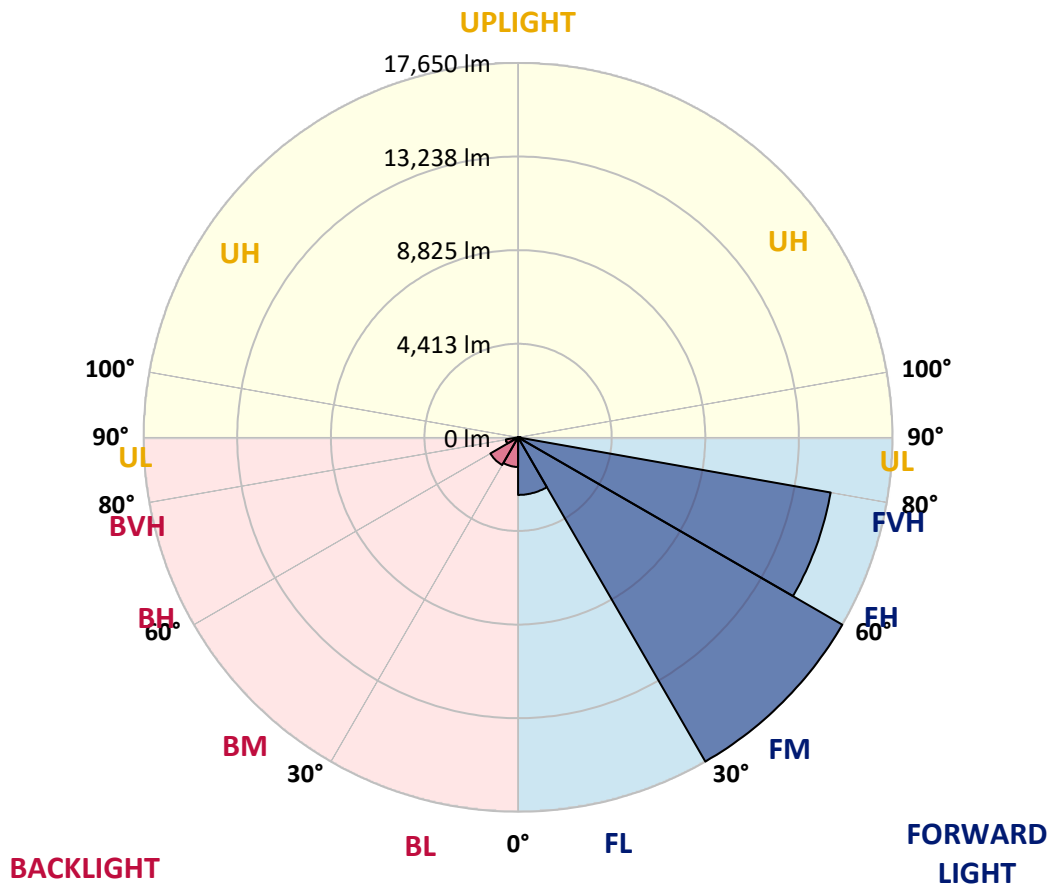


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2714.9	7.0			
FM (30°-60°)	17650.5	45.3			
FH (60°-80°)	14965.3	38.4			G5
FVH (80°-90°)	131.1	0.3			G2/225
BL (0°-30°)	1393.7	3.6	B3/2500		
BM (30°-60°)	1507.3	3.9	B2/2500		
BH (60°-80°)	583.7	1.5	B2/1000		G2/1000
BVH (80°-90°)	14.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7025.1	7025.1	7025.1	7025.1	7025.1	7025.1	7025.1	7025.1	7025.1	7025.1	7025.1
2.5°	6539.9	6529.2	6536.3	6589.8	6689.7	6736.1	6814.6	6828.9	6893.1	6975.1	7007.3
5°	6115.3	6079.6	6097.5	6172.4	6286.6	6415.0	6561.3	6600.5	6761.1	6943.0	7078.6
7.5°	5726.4	5687.2	5730.0	5847.7	6008.3	6147.4	6365.0	6390.0	6646.9	6968.0	7214.2
10°	5116.3	5127.0	5212.6	5419.6	5665.7	5954.7	6247.3	6283.0	6600.5	7050.1	7431.8
12.5°	4648.9	4623.9	4716.7	4952.2	5298.3	5719.3	6158.1	6204.5	6604.1	7174.9	7710.1
15°	4431.3	4424.1	4463.4	4634.6	4970.0	5465.9	6076.0	6136.7	6650.5	7289.1	7974.1
17.5°	4438.4	4427.7	4424.1	4524.0	4773.8	5276.8	5986.9	6065.3	6689.7	7414.0	8252.4
20°	4748.8	4698.9	4609.7	4563.3	4713.1	5155.5	5926.2	6015.4	6746.8	7546.0	8548.6
22.5°	5398.2	5416.0	5177.0	4927.2	4855.8	5169.8	5919.1	6022.5	6871.7	7752.9	8912.5
25°	6696.9	6668.3	6225.9	5665.7	5276.8	5333.9	6043.9	6168.8	7117.9	8049.1	9255.0
27.5°	8323.8	8348.8	7742.2	6850.3	6036.8	5672.9	6272.3	6397.2	7403.3	8234.6	9483.3
30°	10097.0	10072.0	9422.7	8434.4	7114.3	6236.6	6500.6	6611.2	7546.0	8334.5	9718.8
32.5°	11773.9	11716.8	11074.6	10039.9	8487.9	7125.0	6814.6	6878.8	7735.1	8552.1	10036.4
35°	13204.6	13201.0	12640.9	11538.4	9900.8	8238.2	7353.3	7406.9	8088.3	8898.2	10503.8
37.5°	14681.7	14631.8	14003.8	12997.7	11352.9	9458.4	8177.5	8156.1	8644.9	9408.4	11078.2
40°	15894.8	15862.7	15381.0	14414.1	12862.1	10807.0	9176.5	9112.3	9305.0	10114.9	11877.4
42.5°	16793.9	16797.4	16647.6	16058.9	14460.5	12366.2	10432.4	10332.5	10328.9	11181.6	12933.5
45°	17475.3	17521.7	17746.5	17657.3	16347.9	14182.2	12041.5	11938.0	11763.2	12566.0	14143.0
47.5°	17792.9	17853.5	18531.4	18888.2	17999.8	15984.0	13957.4	13739.8	13397.3	14407.0	15495.2
50°	17760.8	17867.8	18813.3	19897.9	19498.3	17810.7	16044.6	15941.2	15381.0	16355.0	16833.1
52.5°	17032.9	17261.3	18831.1	20511.6	20650.7	19494.7	18203.2	18010.5	17739.3	18388.7	18089.0
55°	15056.3	15334.6	18078.3	20707.8	21549.8	20964.7	20315.3	20158.4	19708.8	20308.2	19184.3
57.5°	13982.4	14221.4	16494.2	20611.5	22313.3	22324.0	22195.6	22067.2	21696.1	22206.3	20468.8
60°	13336.6	13575.7	15648.6	20258.3	23005.5	23758.3	23961.7	23947.4	23412.2	24364.8	21974.4
62.5°	12391.1	12719.4	14767.3	19341.3	23497.9	25171.2	25784.9	25688.5	25092.7	26612.6	23465.7
65°	10482.3	10767.8	12962.0	17828.5	23208.9	26341.4	27761.4	27811.4	27122.8	28728.3	24643.1
67.5°	7349.8	7560.3	9740.2	14653.2	21246.5	26726.8	29784.4	29780.8	28607.0	29813.0	24122.2
70°	4260.0	4549.0	5754.9	9058.8	16529.8	24974.9	30087.7	30191.1	28004.1	27547.4	19962.1
72.5°	1648.3	1887.4	3261.0	4813.0	8619.9	19130.8	25881.2	26184.5	23437.2	21250.1	13893.2
75°	492.4	549.4	1534.2	2561.7	3460.8	9240.7	17521.7	17607.3	16076.7	13254.6	7121.4
77.5°	367.5	406.7	670.8	1295.1	1213.1	2800.8	9065.9	9900.8	8534.3	4734.5	1962.3
80°	249.7	296.1	478.1	631.5	449.5	745.7	2547.4	2797.2	2604.5	1063.2	492.4
82.5°	110.6	142.7	338.9	317.5	164.1	214.1	784.9	834.9	538.7	321.1	171.3
85°	10.7	14.3	128.4	139.1	60.7	49.9	164.1	164.1	117.7	110.6	71.4
87.5°	0.0	0.0	3.6	7.1	7.1	10.7	14.3	17.8	21.4	28.5	35.7
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°	7025.1	7025.1	7025.1	7025.1	7025.1	7025.1	7025.1	7025.1	7025.1	7025.1	7025.1
2.5°	7089.3	7046.5	7100.0	7142.8	7153.5	7075.0	7028.7	6960.9	6946.6	6950.2	6932.3
5°	7185.6	7164.2	7203.5	7157.1	7035.8	6807.5	6611.2	6393.6	6275.8	6208.1	6200.9
7.5°	7364.0	7353.3	7310.5	7100.0	6721.8	6215.2	5726.4	5248.3	4952.2	4845.1	4827.3
10°	7628.1	7606.7	7431.8	6932.3	6126.0	5152.0	4331.4	3646.3	3228.9	3107.6	2957.7
12.5°	7931.3	7888.5	7506.8	6572.0	5226.9	3878.3	2854.3	2087.2	1726.8	1619.8	1619.8
15°	8223.9	8131.1	7463.9	5976.1	4120.9	2522.5	1594.8	1205.9	1095.3	1066.8	1066.8
17.5°	8523.6	8345.2	7296.3	5162.7	2847.1	1491.4	1063.2	988.3	974.0	977.6	981.2
20°	8805.5	8527.2	7000.1	4185.1	1816.0	1041.8	952.6	934.8	927.6	934.8	931.2
22.5°	9112.3	8694.9	6550.6	3118.3	1181.0	938.3	906.2	892.0	884.8	895.5	895.5
25°	9415.6	8816.2	5954.7	2097.9	938.3	874.1	856.3	842.0	834.9	838.4	838.4
27.5°	9572.5	8769.8	5173.4	1337.9	842.0	809.9	792.1	774.2	763.5	760.0	763.5
30°	9679.6	8627.1	4217.2	952.6	763.5	724.3	706.4	692.2	663.6	645.8	652.9
32.5°	9847.3	8484.3	3179.0	799.2	699.3	638.6	610.1	574.4	535.2	517.3	517.3
35°	10047.1	8288.1	2229.9	720.7	631.5	567.3	513.8	453.1	406.7	392.5	392.5
37.5°	10311.1	8102.6	1484.2	667.2	574.4	506.6	431.7	360.4	310.4	303.3	299.7
40°	10707.1	7945.6	1045.4	627.9	524.5	442.4	353.2	278.3	242.6	231.9	231.9
42.5°	11220.9	7785.0	827.7	588.7	481.7	381.8	281.9	221.2	192.7	185.5	182.0
45°	11856.0	7596.0	720.7	553.0	438.8	317.5	224.8	185.5	164.1	157.0	157.0
47.5°	12544.6	7339.1	670.8	506.6	388.9	256.9	189.1	160.6	149.8	146.3	142.7
50°	13222.5	6993.0	627.9	463.8	331.8	210.5	164.1	146.3	139.1	135.6	135.6
52.5°	13814.7	6589.8	574.4	413.9	271.2	182.0	146.3	135.6	128.4	121.3	117.7
55°	14321.3	6151.0	506.6	356.8	221.2	160.6	135.6	124.9	117.7	110.6	107.0
57.5°	14974.3	5901.2	406.7	289.0	182.0	142.7	124.9	114.2	107.0	96.3	96.3
60°	15698.5	5719.3	303.3	228.3	157.0	132.0	114.2	103.5	96.3	85.6	85.6
62.5°	16280.1	5448.1	239.0	185.5	135.6	117.7	103.5	92.8	85.6	74.9	74.9
65°	16501.3	4888.0	196.2	146.3	110.6	103.5	92.8	85.6	74.9	64.2	64.2
67.5°	15502.3	3767.6	164.1	117.7	92.8	89.2	82.1	78.5	64.2	57.1	53.5
70°	12277.0	2297.7	135.6	96.3	78.5	74.9	74.9	67.8	57.1	53.5	49.9
72.5°	8413.0	1184.5	110.6	78.5	67.8	67.8	64.2	60.7	53.5	49.9	49.9
75°	4370.6	396.0	85.6	60.7	53.5	57.1	57.1	53.5	49.9	49.9	46.4
77.5°	1252.3	178.4	64.2	46.4	42.8	42.8	46.4	46.4	46.4	42.8	42.8
80°	324.7	103.5	46.4	35.7	35.7	35.7	35.7	39.2	42.8	39.2	39.2
82.5°	132.0	57.1	32.1	28.5	28.5	28.5	28.5	32.1	35.7	35.7	35.7
85°	82.1	28.5	25.0	25.0	25.0	21.4	21.4	25.0	25.0	28.5	28.5
87.5°	49.9	21.4	21.4	21.4	21.4	17.8	17.8	17.8	17.8	17.8	17.8
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)