

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: P641252

Luminaire Tested: GWS-SA5F-740-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641252
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32673.8 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

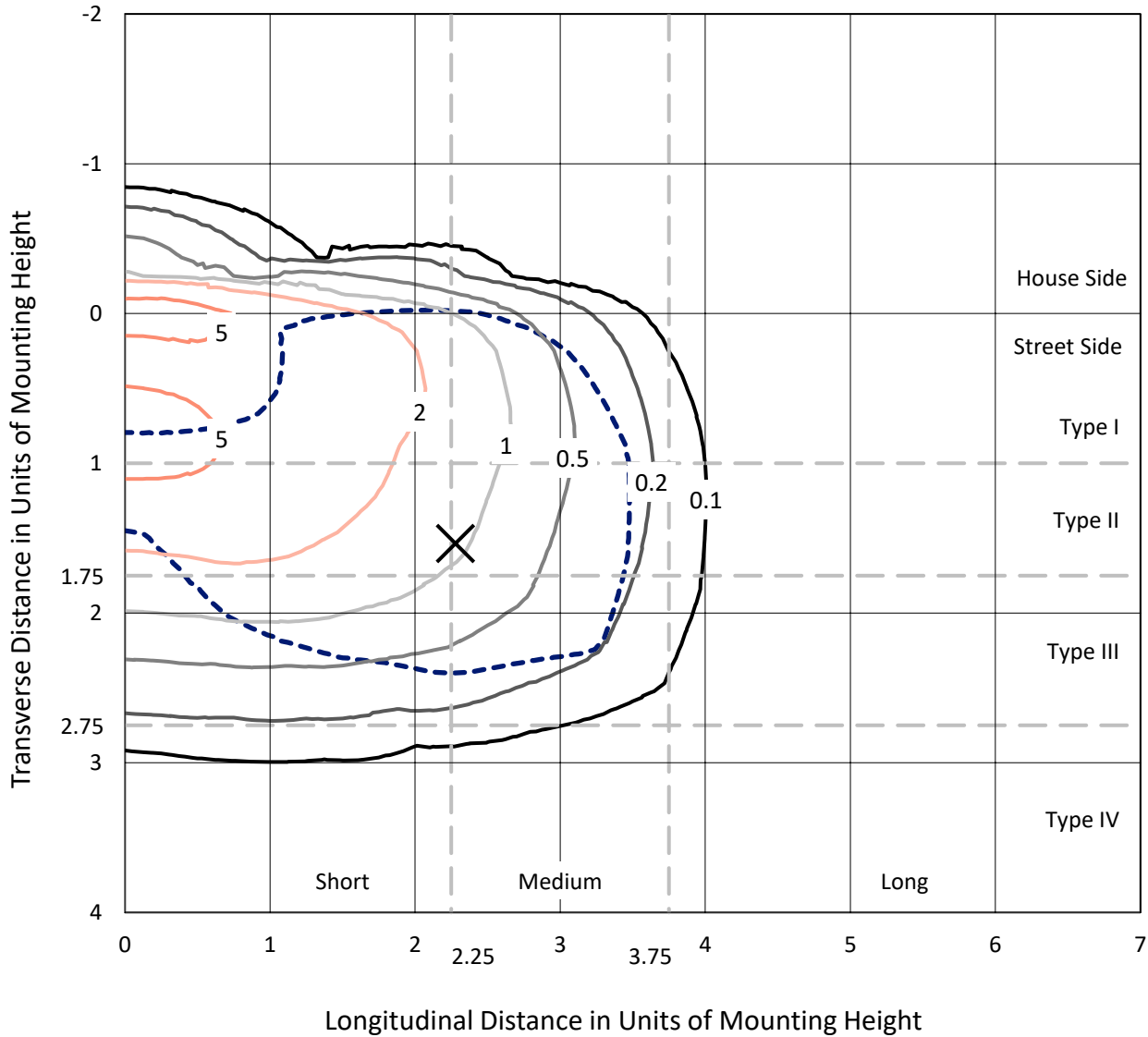
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

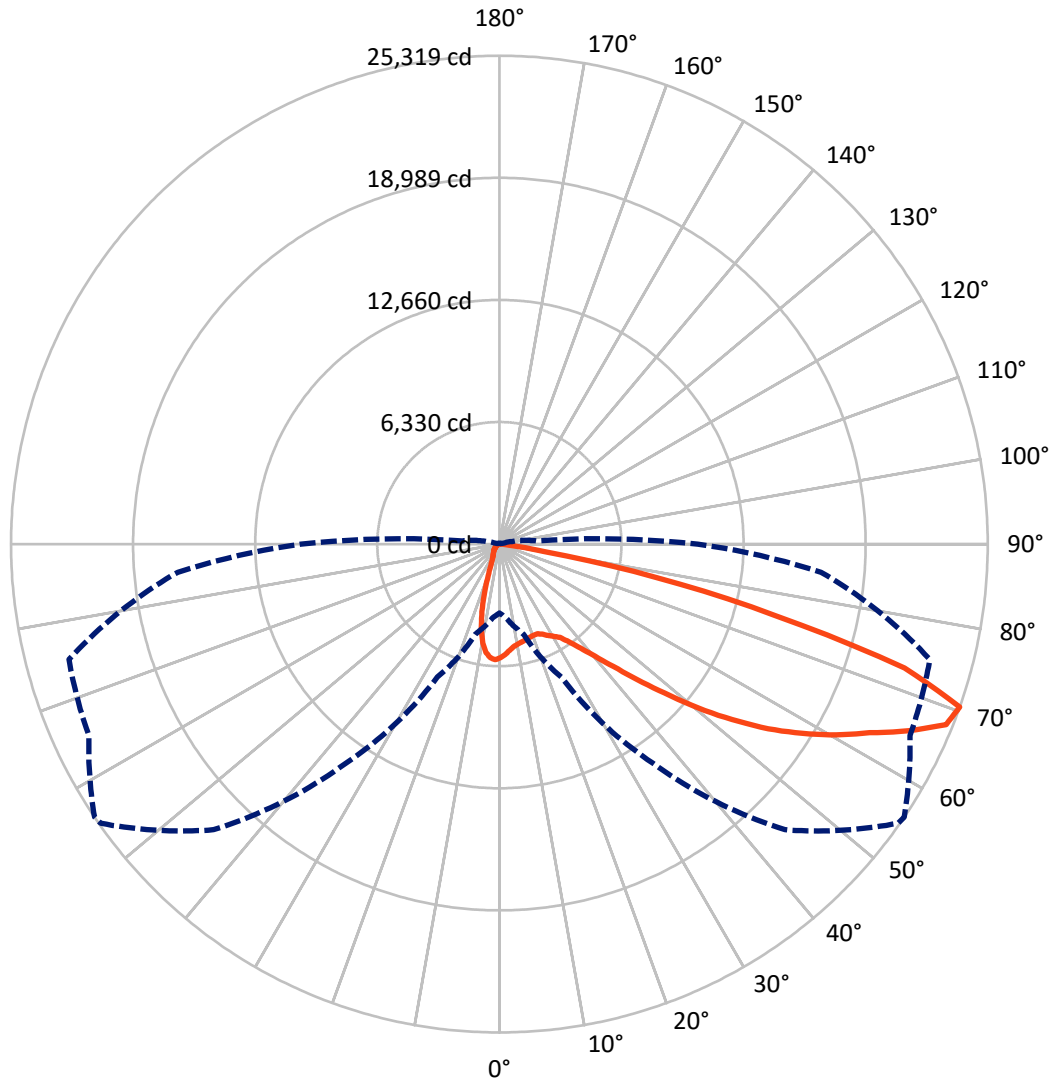
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 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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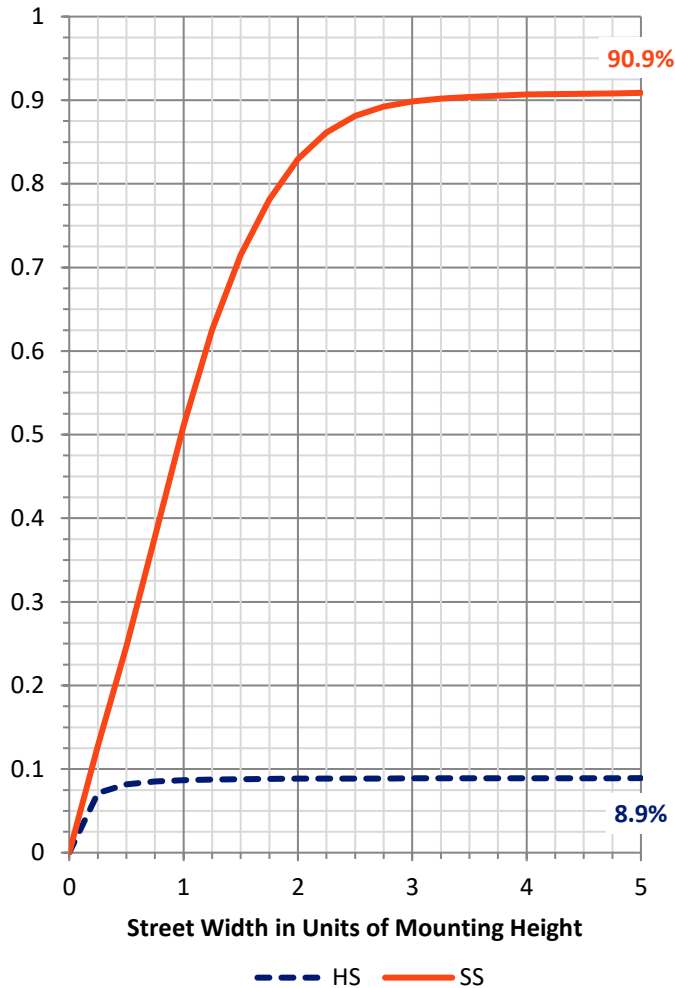
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2934.7	0.0	2934.7
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	29739.1	0.0	29739.1
	% Fixture	91.0	0.0	91.0
Total	Lumens	32673.8	0.0	32673.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.8	1.5
10°-20°	1137.7	3.5
20°-30°	1802.1	5.5
30°-40°	3107.7	9.5
40°-50°	5247.8	16.1
50°-60°	7710.7	23.6
60°-70°	9141.4	28.0
70°-80°	3898.3	11.9
80°-90°	122.4	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°	32673.8	100.0
0°-180°	32673.8	100.0

Coefficient of Utilization



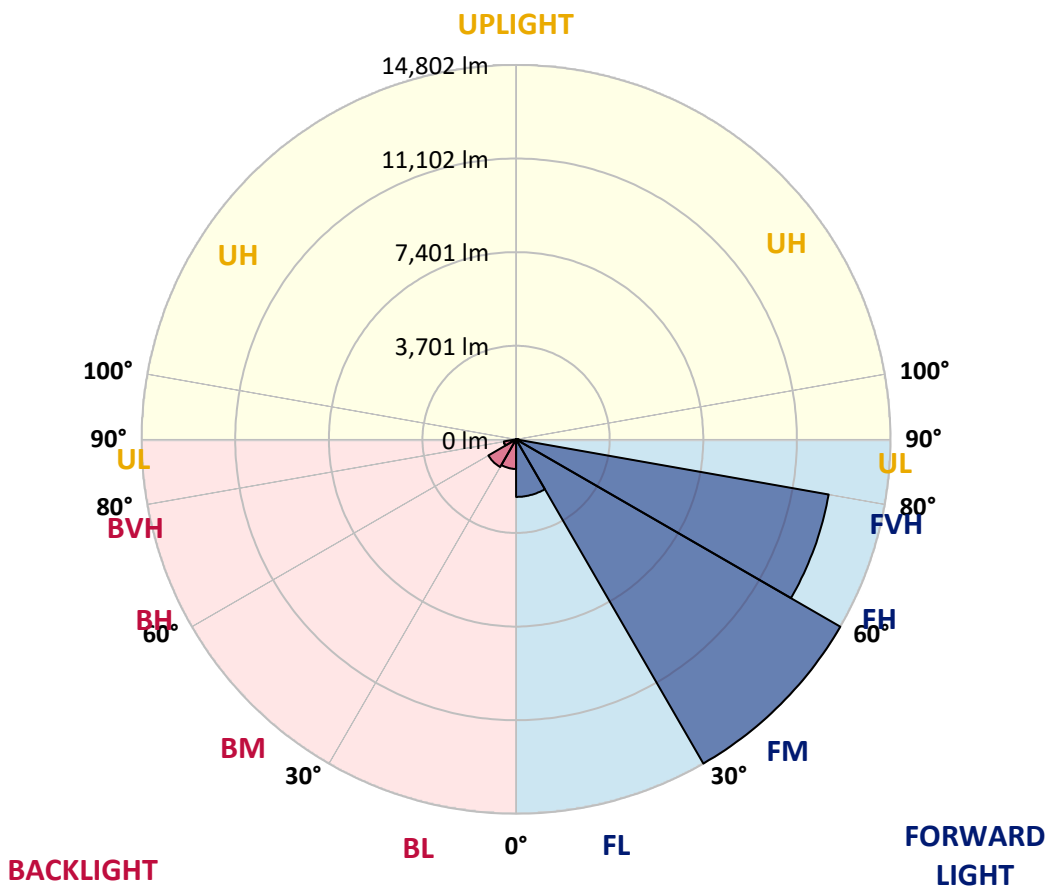
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2276.8	7.0			
FM (30°-60°)	14802.1	45.3			
FH (60°-80°)	12550.2	38.4			G5
FVH (80°-90°)	110.0	0.3			G2/225
BL (0°-30°)	1168.8	3.6	B3/2500		
BM (30°-60°)	1264.0	3.9	B2/2500		
BH (60°-80°)	489.5	1.5	B1/500		G1/500
BVH (80°-90°)	12.4	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°	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4
2.5°	5484.5	5475.5	5481.5	5526.4	5610.2	5649.1	5714.9	5726.9	5780.7	5849.5	5876.5
5°	5128.4	5098.5	5113.5	5176.3	5272.1	5379.8	5502.4	5535.4	5670.0	5822.6	5936.3
7.5°	4802.3	4769.4	4805.3	4904.0	5038.7	5155.4	5337.9	5358.8	5574.3	5843.5	6050.0
10°	4290.6	4299.6	4371.4	4545.0	4751.4	4993.8	5239.1	5269.1	5535.4	5912.4	6232.5
12.5°	3898.7	3877.7	3955.5	4153.0	4443.2	4796.3	5164.3	5203.2	5538.3	6017.1	6465.9
15°	3716.2	3710.2	3743.1	3886.7	4168.0	4583.9	5095.5	5146.4	5577.2	6112.8	6687.3
17.5°	3722.2	3713.2	3710.2	3794.0	4003.4	4425.3	5020.7	5086.5	5610.2	6217.6	6920.7
20°	3982.5	3940.6	3865.8	3826.9	3952.5	4323.6	4969.9	5044.7	5658.0	6328.3	7169.0
22.5°	4527.0	4542.0	4341.5	4132.1	4072.2	4335.5	4963.9	5050.6	5762.8	6501.8	7474.2
25°	5616.1	5592.2	5221.2	4751.4	4425.3	4473.2	5068.6	5173.3	5969.2	6750.1	7761.5
27.5°	6980.5	7001.5	6492.8	5744.8	5062.6	4757.4	5260.1	5364.8	6208.6	6905.7	7953.0
30°	8467.6	8446.7	7902.1	7073.3	5966.2	5230.2	5451.6	5544.3	6328.3	6989.5	8150.4
32.5°	9873.9	9826.0	9287.4	8419.7	7118.2	5975.2	5714.9	5768.7	6486.8	7172.0	8416.7
35°	11073.7	11070.7	10601.0	9676.4	8303.0	6908.7	6166.7	6211.6	6783.1	7462.3	8808.7
37.5°	12312.4	12270.5	11743.9	10900.2	9520.8	7932.0	6857.9	6839.9	7249.8	7890.1	9290.4
40°	13329.7	13302.8	12898.9	12088.0	10786.5	9063.0	7695.6	7641.8	7803.4	8482.6	9960.7
42.5°	14083.7	14086.7	13961.1	13467.4	12126.9	10370.6	8748.9	8665.1	8662.1	9377.2	10846.3
45°	14655.2	14694.1	14882.6	14807.8	13709.7	11893.5	10098.3	10011.5	9864.9	10538.1	11860.6
47.5°	14921.5	14972.4	15540.9	15840.1	15095.1	13404.5	11705.0	11522.5	11235.3	12082.0	12994.6
50°	14894.6	14984.4	15777.3	16686.9	16351.7	14936.5	13455.4	13368.6	12898.9	13715.7	14116.7
52.5°	14284.2	14475.7	15792.2	17201.5	17318.2	16348.8	15265.6	15104.0	14876.6	15421.2	15169.9
55°	12626.6	12860.0	15160.9	17366.1	18072.2	17581.5	17036.9	16905.3	16528.3	17030.9	16088.4
57.5°	11726.0	11926.4	13832.4	17285.3	18712.5	18721.5	18613.8	18506.0	18194.9	18622.7	17165.6
60°	11184.4	11384.9	13123.3	16989.1	19293.0	19924.3	20094.8	20082.9	19634.1	20432.9	18428.3
62.5°	10391.5	10666.8	12384.2	16220.1	19705.9	21109.2	21623.8	21543.0	21043.3	22318.0	19678.9
65°	8790.7	9030.1	10870.2	14951.4	19463.5	22090.6	23281.4	23323.3	22745.8	24092.3	20666.3
67.5°	6163.7	6340.2	8168.4	12288.5	17817.9	22413.7	24977.9	24974.9	23990.5	25001.9	20229.5
70°	3572.5	3814.9	4826.2	7596.9	13862.3	20944.6	25232.3	25319.0	23484.9	23101.9	16740.7
72.5°	1382.3	1582.8	2734.8	4036.3	7228.9	16043.6	21704.6	21958.9	19655.0	17820.9	11651.2
75°	412.9	460.8	1286.6	2148.3	2902.3	7749.5	14694.1	14765.9	13482.3	11115.6	5972.2
77.5°	308.2	341.1	562.5	1086.1	1017.3	2348.8	7602.9	8303.0	7157.1	3970.5	1645.6
80°	209.4	248.3	400.9	529.6	377.0	625.3	2136.3	2345.8	2184.2	891.6	412.9
82.5°	92.8	119.7	284.2	266.3	137.6	179.5	658.3	700.1	451.8	269.3	143.6
85°	9.0	12.0	107.7	116.7	50.9	41.9	137.6	137.6	98.7	92.8	59.8
87.5°	0.0	0.0	3.0	6.0	6.0	9.0	12.0	15.0	18.0	23.9	29.9
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°	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4	5891.4
2.5°	5945.3	5909.4	5954.2	5990.2	5999.1	5933.3	5894.4	5837.6	5825.6	5828.6	5813.6
5°	6026.1	6008.1	6041.0	6002.1	5900.4	5708.9	5544.3	5361.8	5263.1	5206.2	5200.2
7.5°	6175.7	6166.7	6130.8	5954.2	5637.1	5212.2	4802.3	4401.4	4153.0	4063.3	4048.3
10°	6397.1	6379.1	6232.5	5813.6	5137.4	4320.6	3632.4	3057.9	2707.8	2606.1	2480.4
12.5°	6651.4	6615.5	6295.3	5511.4	4383.4	3252.4	2393.7	1750.4	1448.2	1358.4	1358.4
15°	6896.8	6819.0	6259.4	5011.7	3455.9	2115.4	1337.5	1011.3	918.6	894.6	894.6
17.5°	7148.1	6998.5	6118.8	4329.5	2387.7	1250.7	891.6	828.8	816.8	819.8	822.8
20°	7384.5	7151.1	5870.5	3509.7	1523.0	873.7	798.9	783.9	777.9	783.9	780.9
22.5°	7641.8	7291.7	5493.5	2615.1	990.4	786.9	760.0	748.0	742.0	751.0	751.0
25°	7896.1	7393.4	4993.8	1759.3	786.9	733.1	718.1	706.1	700.1	703.1	703.1
27.5°	8027.8	7354.5	4338.5	1122.0	706.1	679.2	664.2	649.3	640.3	637.3	640.3
30°	8117.5	7234.9	3536.6	798.9	640.3	607.4	592.4	580.5	556.5	541.6	547.6
32.5°	8258.2	7115.2	2665.9	670.2	586.4	535.6	511.6	481.7	448.8	433.9	433.9
35°	8425.7	6950.6	1870.1	604.4	529.6	475.7	430.9	380.0	341.1	329.1	329.1
37.5°	8647.1	6795.0	1244.7	559.5	481.7	424.9	362.0	302.2	260.3	254.3	251.3
40°	8979.2	6663.4	876.7	526.6	439.8	371.0	296.2	233.4	203.5	194.5	194.5
42.5°	9410.1	6528.7	694.2	493.7	403.9	320.2	236.4	185.5	161.6	155.6	152.6
45°	9942.7	6370.1	604.4	463.8	368.0	266.3	188.5	155.6	137.6	131.7	131.7
47.5°	10520.2	6154.7	562.5	424.9	326.1	215.4	158.6	134.6	125.7	122.7	119.7
50°	11088.7	5864.5	526.6	389.0	278.3	176.5	137.6	122.7	116.7	113.7	113.7
52.5°	11585.4	5526.4	481.7	347.1	227.4	152.6	122.7	113.7	107.7	101.7	98.7
55°	12010.2	5158.4	424.9	299.2	185.5	134.6	113.7	104.7	98.7	92.8	89.8
57.5°	12557.8	4948.9	341.1	242.4	152.6	119.7	104.7	95.7	89.8	80.8	80.8
60°	13165.2	4796.3	254.3	191.5	131.7	110.7	95.7	86.8	80.8	71.8	71.8
62.5°	13652.9	4568.9	200.5	155.6	113.7	98.7	86.8	77.8	71.8	62.8	62.8
65°	13838.4	4099.2	164.6	122.7	92.8	86.8	77.8	71.8	62.8	53.9	53.9
67.5°	13000.6	3159.6	137.6	98.7	77.8	74.8	68.8	65.8	53.9	47.9	44.9
70°	10295.8	1926.9	113.7	80.8	65.8	62.8	62.8	56.8	47.9	44.9	41.9
72.5°	7055.3	993.4	92.8	65.8	56.8	56.8	53.9	50.9	44.9	41.9	41.9
75°	3665.3	332.1	71.8	50.9	44.9	47.9	47.9	44.9	41.9	41.9	38.9
77.5°	1050.2	149.6	53.9	38.9	35.9	35.9	38.9	38.9	38.9	35.9	35.9
80°	272.3	86.8	38.9	29.9	29.9	29.9	29.9	32.9	35.9	32.9	32.9
82.5°	110.7	47.9	26.9	23.9	23.9	23.9	23.9	26.9	29.9	29.9	29.9
85°	68.8	23.9	20.9	20.9	20.9	18.0	18.0	20.9	20.9	23.9	23.9
87.5°	41.9	18.0	18.0	18.0	18.0	15.0	15.0	15.0	15.0	15.0	15.0
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)