

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: P638831

Luminaire Tested: GWS-SA4F-750-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-750-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30514.1 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

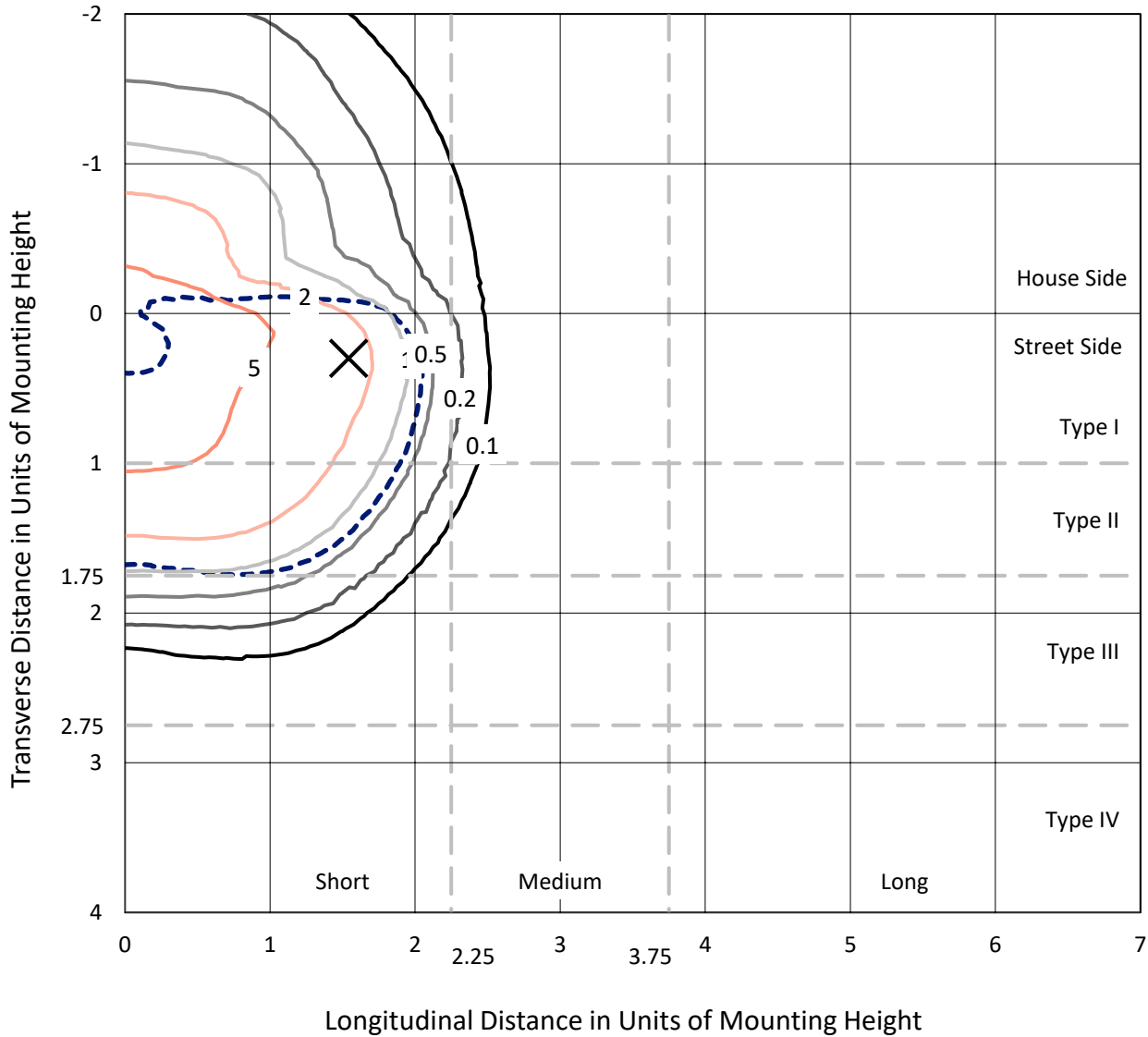
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

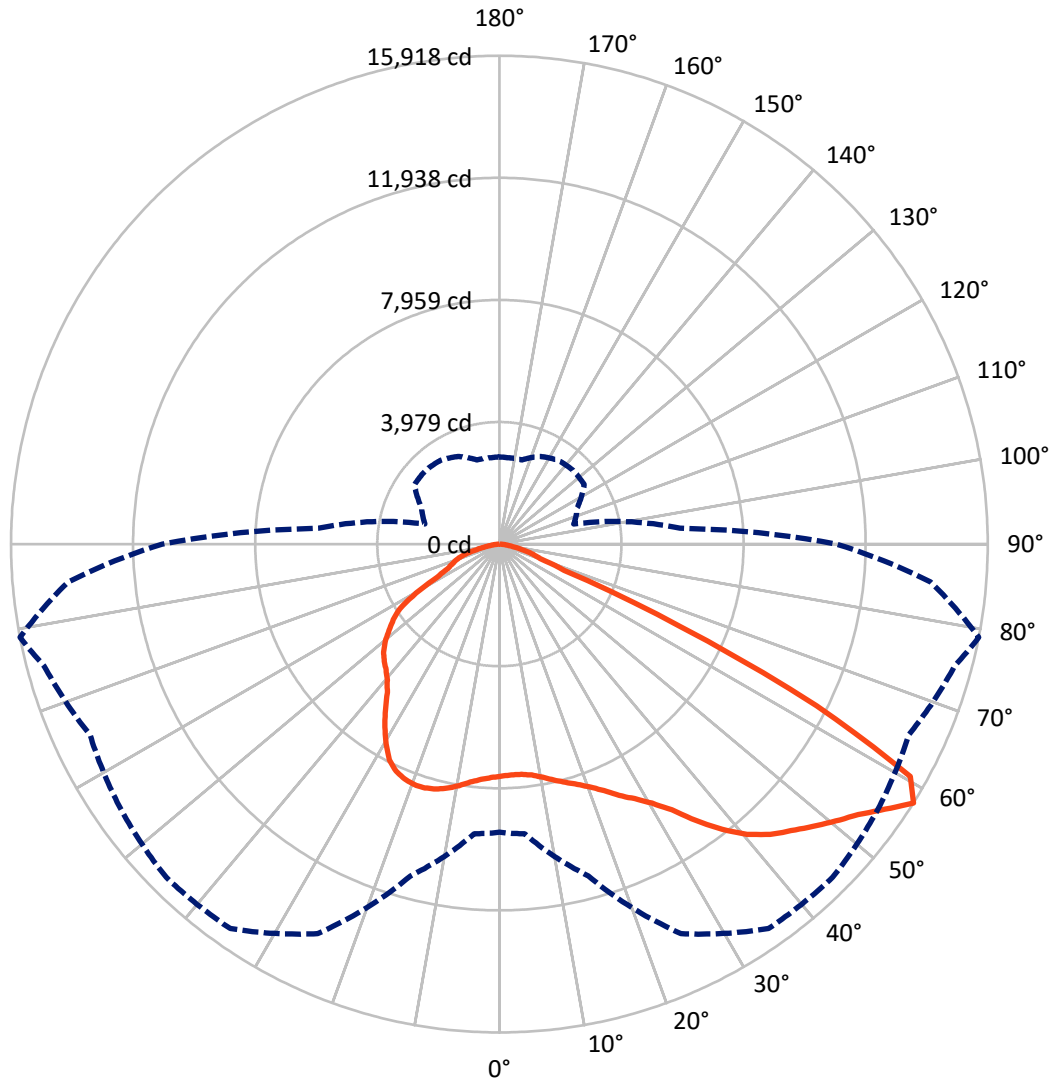
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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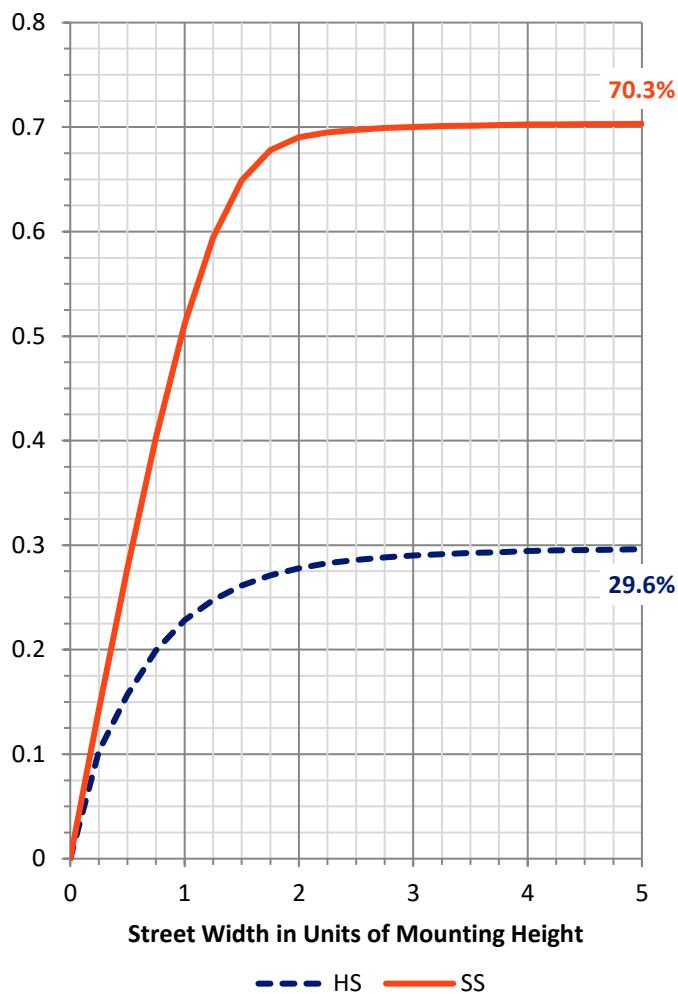
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9070.4	0.0	9070.4
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	21443.7	0.0	21443.7
	% Fixture	70.3	0.0	70.3
Total	Lumens	30514.1	0.0	30514.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	700.3	2.3
10°-20°	1946.2	6.4
20°-30°	3298.9	10.8
30°-40°	5049.3	16.5
40°-50°	6732.8	22.1
50°-60°	7775.9	25.5
60°-70°	4040.6	13.2
70°-80°	858.9	2.8
80°-90°	111.2	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°	30514.1	100.0
0°-180°	30514.1	100.0

Coefficient of Utilization



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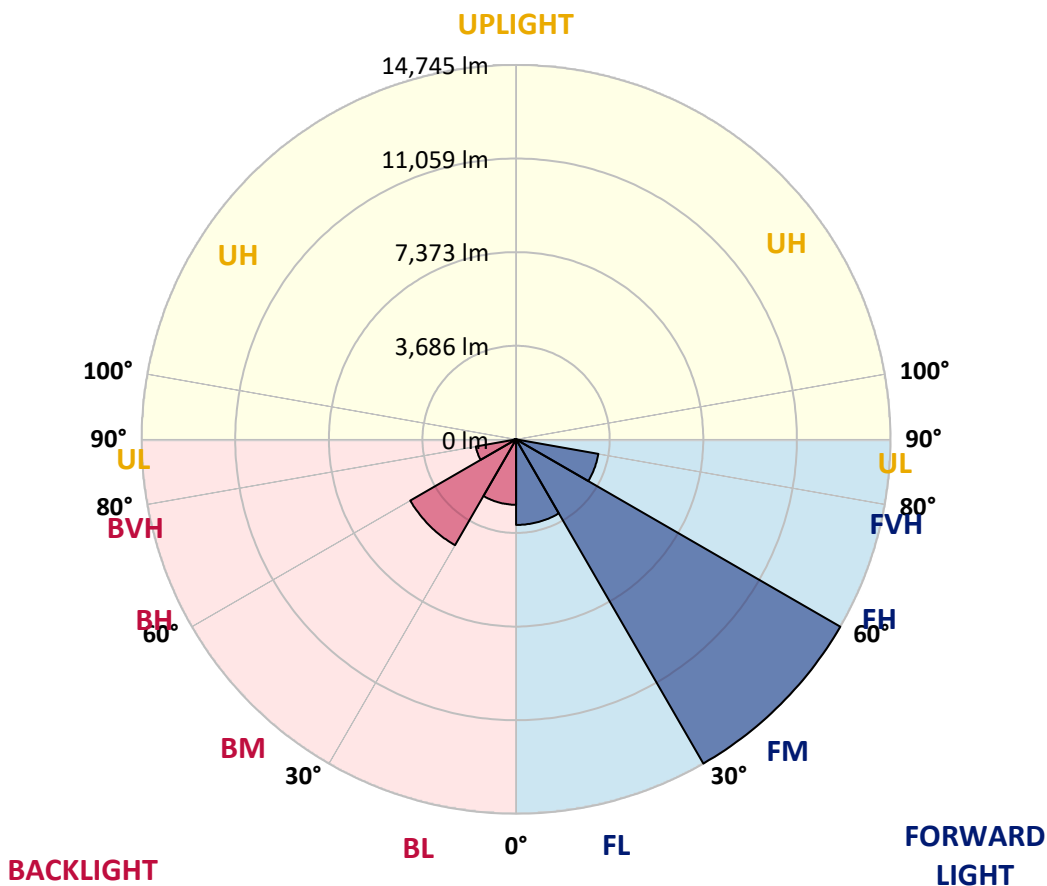
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3369.4	11.0			
FM (30°-60°)	14745.3	48.3			
FH (60°-80°)	3290.2	10.8			G2/5000
FVH (80°-90°)	38.8	0.1			G1/100
BL (0°-30°)	2575.9	8.4	B4/5000		
BM (30°-60°)	4812.7	15.8	B3/5000		
BH (60°-80°)	1609.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	72.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	7562.1	7562.1	7562.1	7562.1	7562.1	7562.1	7562.1	7562.1	7562.1	7562.1	7562.1
2.5°	7217.8	7202.8	7207.8	7227.8	7302.6	7357.5	7414.9	7467.3	7517.2	7532.2	7544.6
5°	6960.8	6933.4	6940.9	6973.3	7060.6	7152.9	7255.2	7380.0	7499.7	7539.6	7592.0
7.5°	6778.7	6773.7	6786.2	6836.1	6928.4	7015.7	7147.9	7325.1	7532.2	7599.5	7691.8
10°	6536.7	6526.7	6576.6	6678.9	6831.1	6970.8	7128.0	7337.6	7627.0	7726.8	7869.0
12.5°	6344.6	6339.6	6392.0	6534.2	6728.8	6950.8	7167.9	7402.4	7754.2	7891.4	8066.1
15°	6456.9	6434.4	6436.9	6536.7	6711.3	6973.3	7267.7	7519.7	7881.4	8056.1	8280.6
17.5°	6783.7	6743.8	6713.8	6731.3	6831.1	7103.0	7419.9	7676.9	8028.6	8233.2	8507.7
20°	7235.3	7212.8	7130.5	7075.6	7098.0	7337.6	7659.4	7898.9	8220.8	8450.3	8744.7
22.5°	7841.5	7786.6	7674.4	7587.0	7519.7	7706.8	8003.7	8210.8	8487.7	8727.2	9034.1
25°	8592.5	8512.7	8335.5	8198.3	8053.6	8245.7	8510.2	8667.3	8854.5	9076.5	9368.4
27.5°	9358.4	9291.1	9094.0	8909.4	8729.7	8849.5	9163.8	9253.7	9233.7	9395.9	9645.4
30°	10174.3	10089.5	9902.3	9702.7	9470.7	9548.1	9830.0	9874.9	9662.8	9797.5	9967.2
32.5°	11035.0	10952.7	10790.5	10558.5	10296.5	10326.5	10403.8	10446.2	10244.1	10321.5	10451.2
35°	11910.7	11833.4	11668.7	11439.2	11247.1	11065.0	10870.4	11040.0	10922.8	11072.5	11062.5
37.5°	12711.6	12634.3	12532.0	12354.8	12025.5	11666.2	11217.2	11426.7	11608.9	11798.5	11766.0
40°	13253.0	13200.6	13225.6	13198.1	12774.0	12062.9	11386.8	11616.3	12112.8	12437.2	12419.7
42.5°	13719.6	13667.2	13811.9	13916.7	13417.7	12429.7	11469.1	11688.7	12434.7	12941.1	12916.2
45°	13926.6	13911.7	14151.2	14483.0	14006.5	12818.9	11681.2	11838.4	12679.2	13327.9	13233.1
47.5°	13679.6	13732.0	14203.6	14764.9	14495.5	13280.5	12115.3	12155.2	12998.5	13747.0	13480.0
50°	13188.1	13302.9	13939.1	14772.4	14852.3	13801.9	12716.6	12616.8	13427.7	14193.6	13609.8
52.5°	12472.1	12591.9	13629.7	14715.0	15056.8	14405.7	13517.5	13375.3	13969.1	14640.2	13632.2
55°	10827.9	10990.1	12921.2	14585.3	15256.4	14954.5	14420.6	14131.2	14667.6	15253.9	13854.3
57.5°	9393.4	9478.2	11194.7	14009.0	15296.3	15358.7	15064.3	14720.0	15361.2	15917.6	14103.8
60°	6893.5	6913.4	8457.8	11591.4	14071.3	15124.2	15011.9	14500.5	15031.9	15386.2	12961.1
62.5°	3894.6	3897.1	5129.6	7736.7	10511.1	12327.4	12397.3	11945.7	11499.1	11603.9	9021.6
65°	1462.0	1599.2	2342.7	3802.3	6060.2	7277.7	7567.1	7671.9	6928.4	6466.8	4837.6
67.5°	978.0	1010.4	1367.2	1956.0	2697.0	3113.7	3482.9	3492.9	2554.8	2277.9	1906.1
70°	746.0	778.4	1075.3	1399.6	1367.2	1262.4	1364.7	1327.3	1372.2	1409.6	1449.5
72.5°	556.4	588.8	833.3	988.0	820.8	808.4	915.6	1017.9	1112.7	1152.7	1215.0
75°	369.2	394.2	561.4	528.9	454.1	536.4	668.6	770.9	825.8	873.2	920.6
77.5°	234.5	252.0	299.4	242.0	252.0	314.4	389.2	481.5	533.9	581.3	606.3
80°	107.3	104.8	102.3	114.8	142.2	184.6	234.5	289.4	329.3	349.3	364.3
82.5°	42.4	47.4	52.4	62.4	77.3	99.8	132.2	169.7	202.1	207.1	219.6
85°	17.5	20.0	22.5	27.4	34.9	44.9	54.9	77.3	97.3	104.8	112.3
87.5°	0.0	0.0	0.0	0.0	2.5	5.0	7.5	12.5	22.5	24.9	27.4
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°	7562.1	7562.1	7562.1	7562.1	7562.1	7562.1	7562.1	7562.1	7562.1	7562.1	7562.1
2.5°	7612.0	7579.6	7634.5	7671.9	7706.8	7669.4	7656.9	7624.5	7619.5	7619.5	7636.9
5°	7681.9	7659.4	7716.8	7739.2	7736.7	7654.4	7604.5	7539.6	7507.2	7507.2	7512.2
7.5°	7806.6	7794.1	7826.6	7791.6	7711.8	7544.6	7380.0	7242.7	7150.4	7103.0	7118.0
10°	8013.7	7998.7	7971.3	7841.5	7612.0	7265.2	6928.4	6678.9	6529.2	6444.4	6449.4
12.5°	8215.8	8190.8	8093.5	7806.6	7335.1	6783.7	6342.1	6062.7	5898.0	5798.2	5775.7
15°	8437.8	8372.9	8163.4	7627.0	6883.5	6194.9	5733.3	5431.4	5254.3	5194.4	5191.9
17.5°	8649.9	8535.1	8155.9	7307.6	6342.1	5578.6	5114.6	4927.5	4897.5	4925.0	4932.5
20°	8864.4	8679.8	8073.6	6866.0	5698.4	4964.9	4725.4	4802.7	4915.0	4989.8	5007.3
22.5°	9086.5	8799.6	7886.4	6297.2	5019.8	4550.7	4650.5	4820.2	4959.9	5059.7	5069.7
25°	9336.0	8911.9	7607.0	5601.1	4475.9	4436.0	4633.1	4812.7	4962.4	5077.2	5097.1
27.5°	9478.2	8914.3	7215.3	4885.1	4226.4	4391.1	4590.7	4760.3	4910.0	5034.7	5057.2
30°	9617.9	8847.0	6594.1	4303.7	4154.0	4338.7	4518.3	4675.5	4817.7	4939.9	4967.4
32.5°	9815.0	8784.6	5878.0	3969.4	4111.6	4288.8	4436.0	4575.7	4685.5	4740.3	4755.3
35°	10059.5	8704.8	5117.1	3824.7	4084.2	4248.8	4378.6	4453.4	4311.2	4281.3	4313.7
37.5°	10401.3	8629.9	4358.6	3762.3	4066.7	4233.9	4348.6	4156.5	3981.9	3912.0	3937.0
40°	10770.6	8587.5	3844.7	3712.4	4074.2	4248.8	4223.9	3939.5	3687.5	3540.3	3535.3
42.5°	11084.9	8522.6	3515.3	3680.0	4094.2	4306.2	4054.2	3747.4	3373.1	3285.8	3288.3
45°	11297.0	8358.0	3340.7	3645.1	4111.6	4318.7	3974.4	3482.9	3216.0	3161.1	3158.6
47.5°	11384.3	8058.6	3228.4	3590.2	4109.1	4216.4	3812.2	3373.1	3106.2	3091.2	3101.2
50°	11326.9	7567.1	3113.7	3482.9	4049.3	4109.1	3625.1	3275.8	3031.3	3113.7	3173.5
52.5°	11114.9	6930.9	2976.4	3335.7	3942.0	3986.9	3530.3	3216.0	2976.4	3086.2	3133.6
55°	11060.0	6414.4	2801.8	3143.6	3782.3	3769.8	3430.5	3186.0	2939.0	2896.6	2904.1
57.5°	10987.6	5910.5	2512.4	2799.3	3378.1	3398.1	3335.7	3151.1	2841.7	2829.2	2841.7
60°	9545.6	4530.8	2240.4	2415.1	2774.3	2881.6	3228.4	3086.2	2684.5	2632.1	2629.6
62.5°	6234.8	2744.4	1993.4	2105.7	2260.4	2385.1	2944.0	2899.1	2512.4	2479.9	2502.4
65°	3353.2	1956.0	1813.8	1881.2	1966.0	2060.8	2440.0	2582.2	2270.4	2155.6	2158.1
67.5°	1714.0	1664.1	1679.1	1726.5	1791.4	1838.8	1968.5	2093.2	1936.1	1838.8	1836.3
70°	1467.0	1506.9	1529.4	1556.8	1599.2	1591.8	1604.2	1626.7	1614.2	1566.8	1564.3
72.5°	1250.0	1312.3	1317.3	1322.3	1337.3	1302.3	1279.9	1242.5	1245.0	1252.4	1254.9
75°	950.6	1010.4	1025.4	1017.9	1032.9	988.0	958.0	920.6	875.7	868.2	873.2
77.5°	618.7	666.1	688.6	683.6	691.1	656.2	641.2	601.3	548.9	528.9	528.9
80°	374.2	401.7	419.1	424.1	431.6	406.7	381.7	346.8	324.3	301.9	301.9
82.5°	227.0	244.5	257.0	257.0	264.5	237.0	217.1	192.1	182.1	162.2	162.2
85°	114.8	127.2	132.2	129.7	124.7	102.3	94.8	82.3	77.3	67.4	67.4
87.5°	27.4	34.9	34.9	24.9	24.9	12.5	7.5	2.5	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)