

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: P638806

Luminaire Tested: GWS-SA4F-750-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-750-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34101.9 lumens
Efficiency: N/A
Efficacy: 151.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

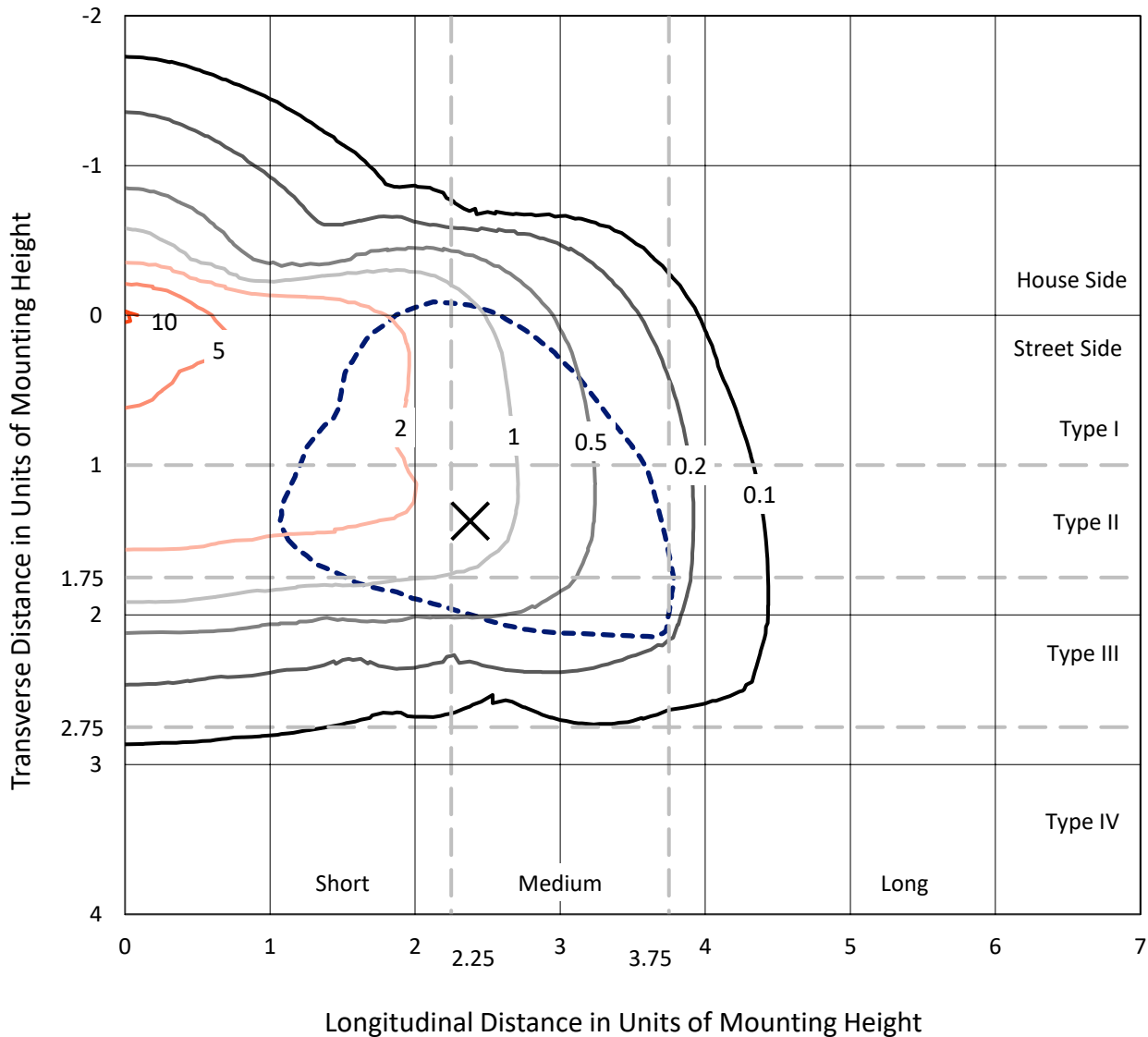
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638806
 CATALOG NUMBER: GWS-SA4F-750-U-SL3-W

Iso-Footcandle Lines of Horizontal Illumination

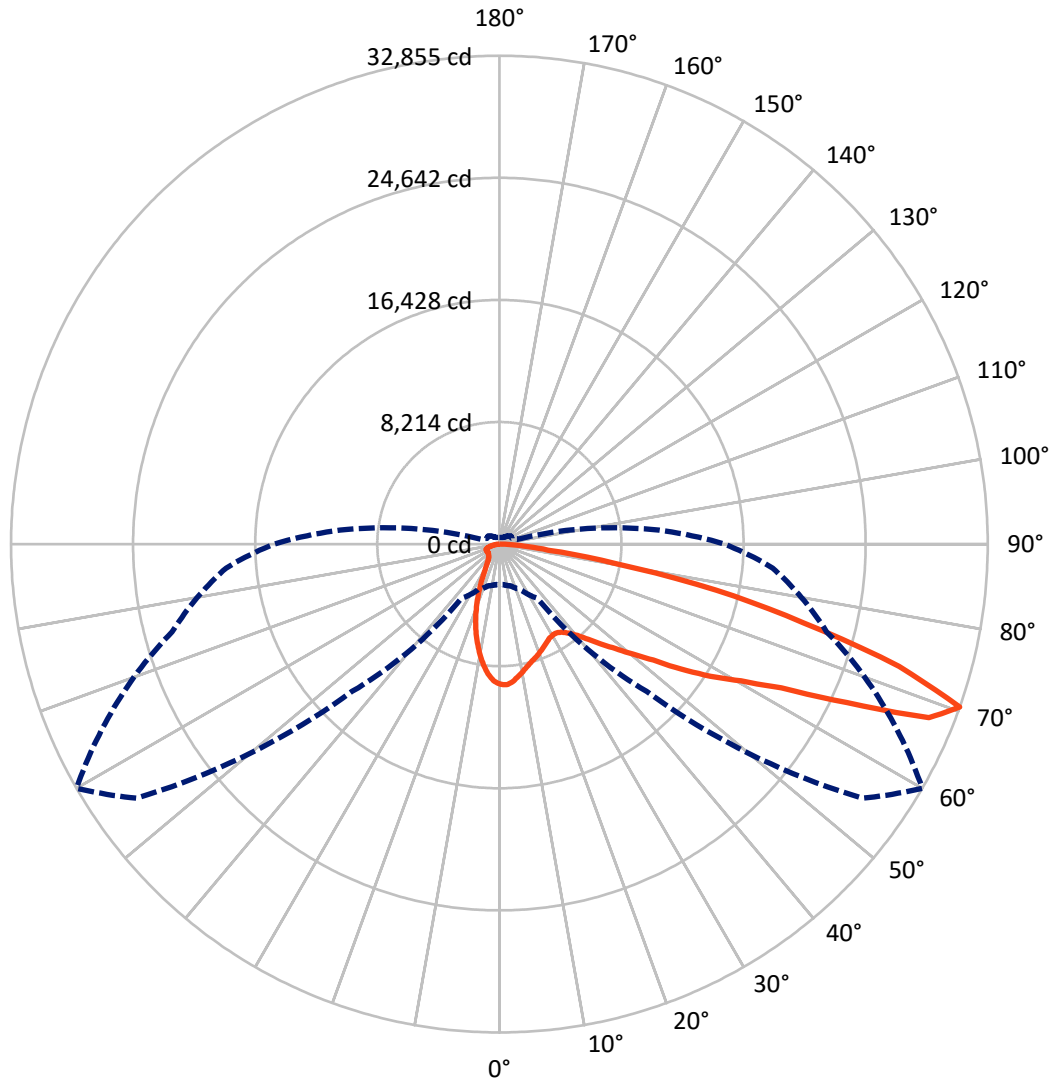
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P638806
CATALOG NUMBER: GWS-SA4F-750-U-SL3-W

Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P638806

CATALOG NUMBER: GWS-SA4F-750-U-SL3-W

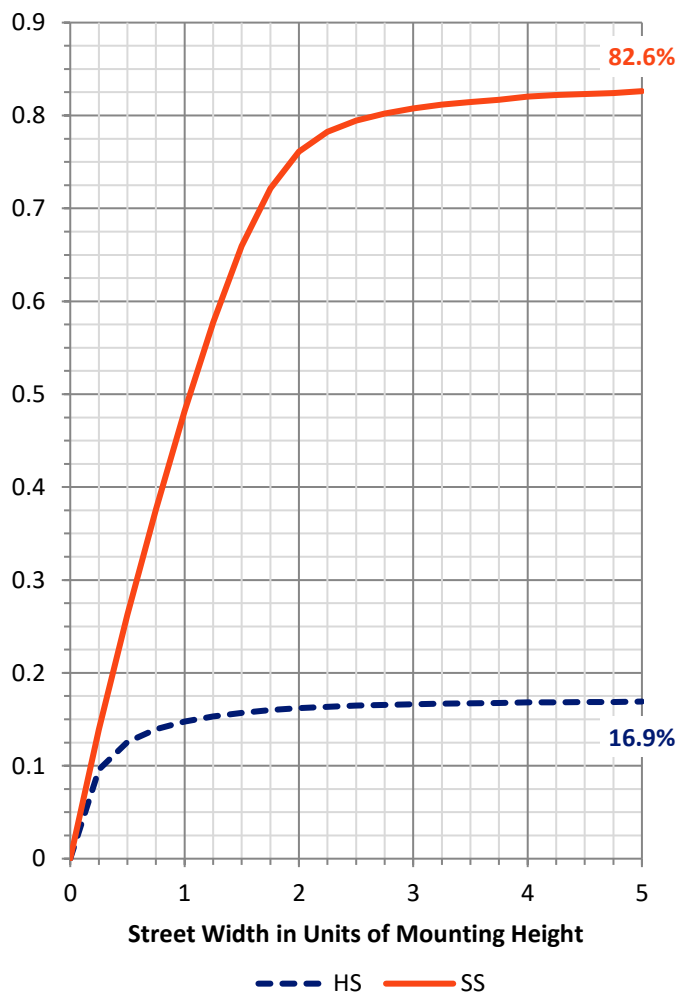
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5832.2	0.0	5832.2
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	28269.7	0.0	28269.7
	% Fixture	82.9	0.0	82.9
Total	Lumens	34101.9	0.0	34101.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	813.4	2.4
10°-20°	1822.2	5.3
20°-30°	2333.7	6.8
30°-40°	3067.0	9.0
40°-50°	4449.7	13.0
50°-60°	6942.7	20.4
60°-70°	9089.3	26.7
70°-80°	5026.1	14.7
80°-90°	557.8	1.6
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°	34101.9	100.0
0°-180°	34101.9	100.0

Coefficient of Utilization



REPORT NUMBER: P638806

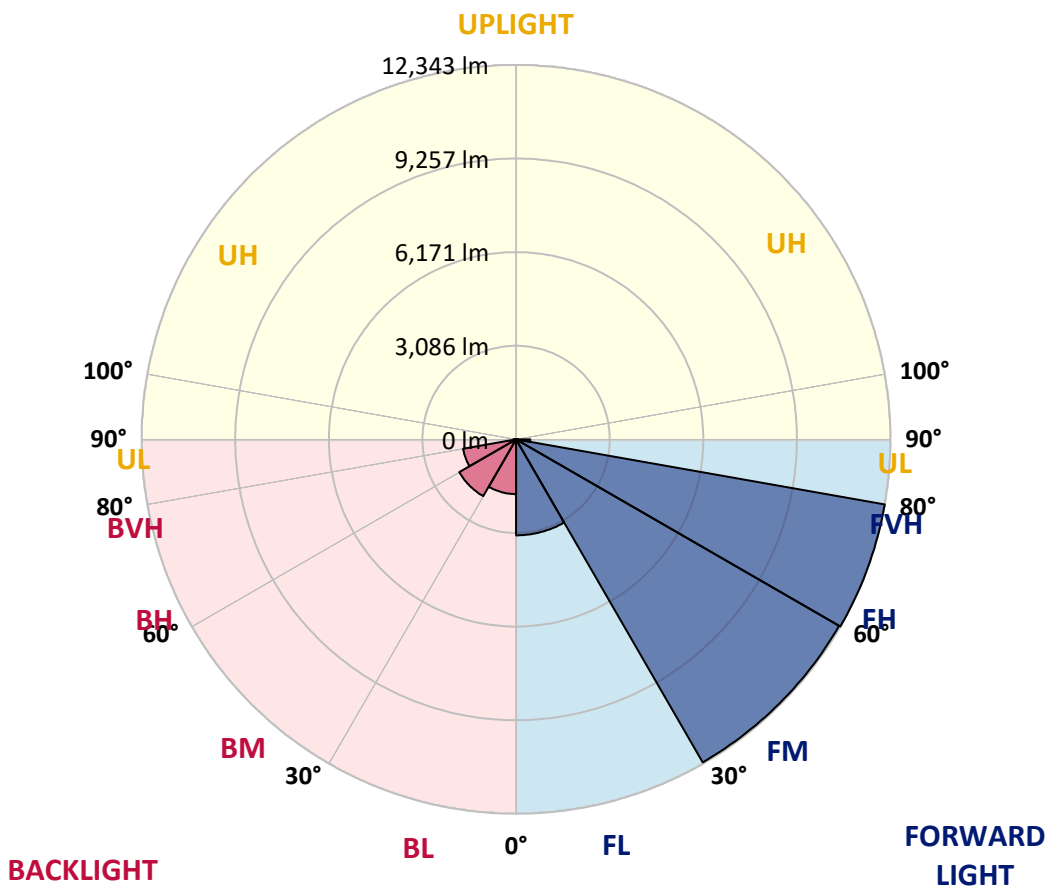
CATALOG NUMBER: GWS-SA4F-750-U-SL3-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3164.9	9.3			
FM (30°-60°)	12297.0	36.1			
FH (60°-80°)	12343.0	36.2			G5
FVH (80°-90°)	464.8	1.4			G3/500
BL (0°-30°)	1804.4	5.3	B3/2500		
BM (30°-60°)	2162.4	6.3	B2/2500		
BH (60°-80°)	1772.4	5.2	B3/2500		G3/2500
BVH (80°-90°)	93.0	0.3			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





REPORT NUMBER: P638806
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	9436.4	9436.4	9436.4	9436.4	9436.4	9436.4	9436.4	9436.4	9436.4	9436.4	9436.4
2.5°	9304.2	9314.2	9341.6	9381.5	9421.5	9441.4	9491.3	9476.4	9466.4	9446.4	9421.5
5°	8892.5	8912.5	8937.4	9014.8	9102.1	9172.0	9284.2	9296.7	9301.7	9311.7	9271.8
7.5°	8368.5	8373.5	8433.4	8535.7	8650.5	8770.2	8957.4	9009.8	9054.7	9104.6	9072.2
10°	7789.7	7802.2	7847.1	7994.3	8191.4	8368.5	8620.5	8707.9	8802.7	8912.5	8867.6
12.5°	7315.6	7318.1	7390.5	7547.7	7762.2	8001.8	8316.1	8420.9	8545.7	8717.9	8677.9
15°	6938.9	6938.9	7006.2	7141.0	7388.0	7669.9	8044.2	8178.9	8348.6	8580.6	8510.8
17.5°	6639.4	6641.9	6684.4	6826.6	7046.1	7358.0	7802.2	7984.3	8171.4	8478.3	8373.5
20°	6482.2	6469.8	6477.3	6564.6	6751.7	7053.6	7560.1	7772.2	8024.2	8408.5	8248.8
22.5°	6474.8	6452.3	6419.9	6427.4	6537.1	6786.6	7300.6	7557.6	7874.5	8351.1	8121.5
25°	6602.0	6577.1	6519.7	6454.8	6444.8	6594.5	7056.1	7348.0	7719.8	8326.1	7999.3
27.5°	6816.6	6799.1	6724.3	6627.0	6524.7	6519.7	6871.5	7175.9	7607.5	8351.1	7911.9
30°	7101.0	7071.1	7023.7	6898.9	6744.2	6584.5	6799.1	7083.6	7532.7	8430.9	7874.5
32.5°	7422.9	7405.4	7360.5	7235.8	7071.1	6816.6	6856.5	7103.5	7532.7	8570.6	7882.0
35°	7764.7	7762.2	7762.2	7679.9	7497.8	7180.9	7083.6	7273.2	7647.5	8795.2	7961.8
37.5°	8096.6	8094.1	8173.9	8203.9	7996.8	7654.9	7470.3	7612.5	7899.5	9127.0	8159.0
40°	8366.0	8376.0	8550.7	8700.4	8585.6	8268.7	8009.2	8081.6	8308.7	9598.6	8503.3
42.5°	8638.0	8665.5	8927.4	9191.9	9236.8	8962.4	8700.4	8742.8	8895.0	10222.4	9017.3
45°	8934.9	8947.4	9314.2	9683.5	9900.5	9738.3	9523.8	9581.2	9616.1	10993.4	9783.3
47.5°	9221.9	9254.3	9728.4	10234.9	10646.6	10631.6	10511.8	10494.4	10501.8	11931.5	10689.0
50°	9613.6	9661.0	10217.4	10828.7	11432.5	11709.5	11744.4	11612.2	11557.3	12974.5	11816.8
52.5°	10357.1	10357.1	10856.1	11457.5	12268.4	12954.5	13189.1	12972.0	12797.3	14077.3	13014.4
55°	11287.8	11327.7	11724.4	12211.0	13239.0	14264.4	15057.9	14818.3	14324.3	15277.4	14269.4
57.5°	11702.0	11751.9	12380.6	13136.7	14509.0	15754.0	16854.3	16769.5	16048.4	16525.0	15571.9
60°	10953.5	11058.2	11924.0	13191.6	15659.2	18156.8	18932.8	18685.7	17655.3	17834.9	16984.1
62.5°	9137.0	9251.8	10212.4	11981.4	15499.5	20754.2	22208.8	21298.1	19661.3	19489.2	18865.4
65°	5451.8	5446.8	6602.0	8947.4	13530.9	21475.3	27393.6	25694.5	22760.2	21759.7	20801.6
67.5°	3465.7	3458.2	3700.2	4740.7	9004.8	19708.7	30727.1	31168.7	26969.4	23428.9	20961.3
70°	2734.6	2732.1	2906.8	3380.8	4453.7	14024.9	29798.9	32855.4	29511.9	22792.7	18456.2
72.5°	1993.6	1998.6	2268.0	2831.9	3435.7	7041.1	24130.0	28112.2	27144.1	20120.4	14983.0
75°	1432.2	1439.7	1601.8	2168.2	3168.8	3849.9	16045.9	21138.4	20651.9	16128.3	10307.2
77.5°	910.7	920.7	1062.9	1519.5	2560.0	3108.9	9728.4	14923.1	13740.5	9087.1	3665.3
80°	556.4	588.8	708.6	1132.8	2046.0	2332.9	4862.9	7862.0	6881.5	2492.6	1232.6
82.5°	286.9	311.9	426.7	701.1	1409.7	2048.5	2752.1	3303.5	2130.8	1042.9	656.2
85°	89.8	104.8	149.7	284.4	671.2	1270.0	1821.4	1641.8	978.1	491.5	304.4
87.5°	22.5	22.5	25.0	25.0	27.4	57.4	351.8	371.8	259.5	154.7	124.8
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: P638806
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9436.4	9436.4	9436.4	9436.4	9436.4	9436.4	9436.4	9436.4	9436.4	9436.4	9436.4
2.5°	9371.6	9311.7	9286.7	9284.2	9221.9	9132.0	9072.2	9029.7	9004.8	8999.8	8999.8
5°	9204.4	9127.0	9024.7	8947.4	8780.2	8610.6	8468.3	8388.5	8296.2	8283.7	8281.2
7.5°	8982.3	8870.1	8675.4	8458.4	8166.4	7884.5	7645.0	7482.8	7320.6	7290.7	7280.7
10°	8742.8	8590.6	8258.8	7877.0	7440.4	7018.7	6651.9	6365.0	6175.4	6040.6	6015.7
12.5°	8505.8	8303.7	7817.1	7248.2	6649.4	6073.1	5521.6	5052.6	4713.2	4516.1	4481.2
15°	8283.7	8001.8	7335.6	6609.5	5831.0	5042.6	4261.6	3652.8	3176.3	3006.6	2966.7
17.5°	8081.6	7729.8	6869.0	5948.3	4977.7	3947.2	3059.0	2517.5	2238.1	2153.3	2133.3
20°	7879.5	7450.3	6394.9	5252.2	4072.0	2916.8	2235.6	1981.1	1876.3	1843.9	1833.9
22.5°	7662.4	7143.4	5878.4	4566.0	3156.3	2183.2	1828.9	1716.6	1684.2	1686.7	1684.2
25°	7445.4	6831.6	5337.0	3820.0	2350.4	1771.5	1596.9	1554.4	1561.9	1584.4	1589.4
27.5°	7265.7	6554.6	4805.5	3001.6	1836.4	1524.5	1442.2	1439.7	1467.1	1497.1	1502.0
30°	7136.0	6307.6	4281.6	2308.0	1512.0	1354.8	1322.4	1337.4	1369.8	1392.3	1399.7
32.5°	7043.6	6095.5	3722.7	1813.9	1324.9	1235.1	1220.1	1235.1	1255.0	1277.5	1282.5
35°	7011.2	5940.8	3173.8	1479.6	1197.6	1147.7	1137.8	1145.2	1155.2	1167.7	1172.7
37.5°	7083.6	5863.5	2599.9	1287.5	1120.3	1090.4	1075.4	1070.4	1072.9	1077.9	1080.4
40°	7298.1	5898.4	2130.8	1175.2	1070.4	1042.9	1018.0	1008.0	1005.5	1010.5	1008.0
42.5°	7667.4	6045.6	1791.5	1110.3	1030.5	990.6	963.1	953.1	953.1	965.6	965.6
45°	8208.9	6335.0	1547.0	1062.9	995.5	945.6	915.7	910.7	920.7	940.6	943.1
47.5°	9002.3	6759.2	1399.7	1028.0	963.1	905.7	875.8	873.3	893.2	925.7	928.2
50°	9942.9	7370.5	1319.9	1003.0	940.6	873.3	843.3	845.8	868.3	903.2	910.7
52.5°	11075.7	8203.9	1324.9	993.0	928.2	853.3	823.4	818.4	840.8	875.8	883.3
55°	12245.9	9216.9	1422.2	995.5	910.7	843.3	803.4	786.0	805.9	830.9	833.4
57.5°	13533.4	10359.6	1664.2	990.6	888.3	833.4	786.0	746.0	758.5	773.5	781.0
60°	14985.5	11704.5	2185.7	1000.5	878.3	810.9	751.0	698.6	696.1	706.1	708.6
62.5°	16926.7	13533.4	2772.0	1018.0	900.7	783.5	698.6	643.7	633.8	638.7	641.2
65°	18411.3	14406.7	2587.4	1003.0	948.1	763.5	648.7	591.3	571.4	566.4	566.4
67.5°	17807.5	13251.4	1801.5	963.1	970.6	766.0	608.8	536.4	511.5	499.0	496.5
70°	15152.7	10763.8	1252.5	923.2	945.6	761.0	566.4	491.5	459.1	441.6	439.1
72.5°	11971.5	8218.8	1013.0	843.3	858.3	686.2	504.0	441.6	414.2	391.7	391.7
75°	7704.8	5015.1	845.8	751.0	701.1	533.9	436.6	394.2	366.8	344.3	344.3
77.5°	2592.4	1861.3	656.2	636.2	524.0	401.7	366.8	339.3	316.9	296.9	294.4
80°	1052.9	883.3	481.6	481.6	366.8	306.9	286.9	274.5	259.5	234.5	234.5
82.5°	611.3	536.4	336.8	291.9	244.5	212.1	199.6	187.1	187.1	169.7	169.7
85°	294.4	296.9	202.1	179.6	139.7	122.3	117.3	109.8	107.3	97.3	94.8
87.5°	159.7	162.2	102.3	79.8	54.9	47.4	39.9	37.4	34.9	32.4	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

(END OF REPORT)