

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: P641245

Luminaire Tested: GWS-SA5F-740-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-740-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42559.7 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

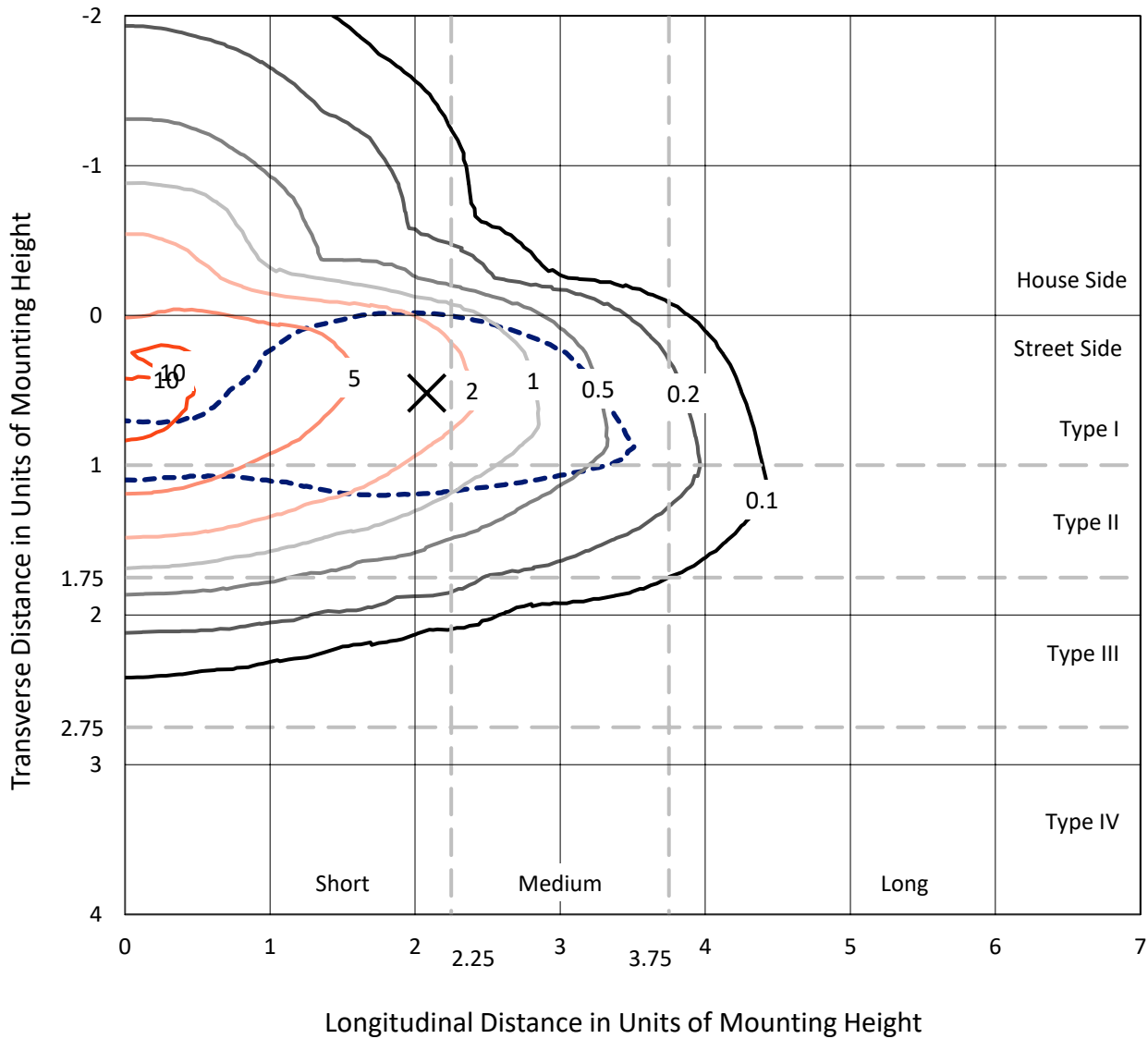
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641245
 CATALOG NUMBER: GWS-SA5F-740-U-T2R-W

Iso-Footcandle Lines of Horizontal Illumination

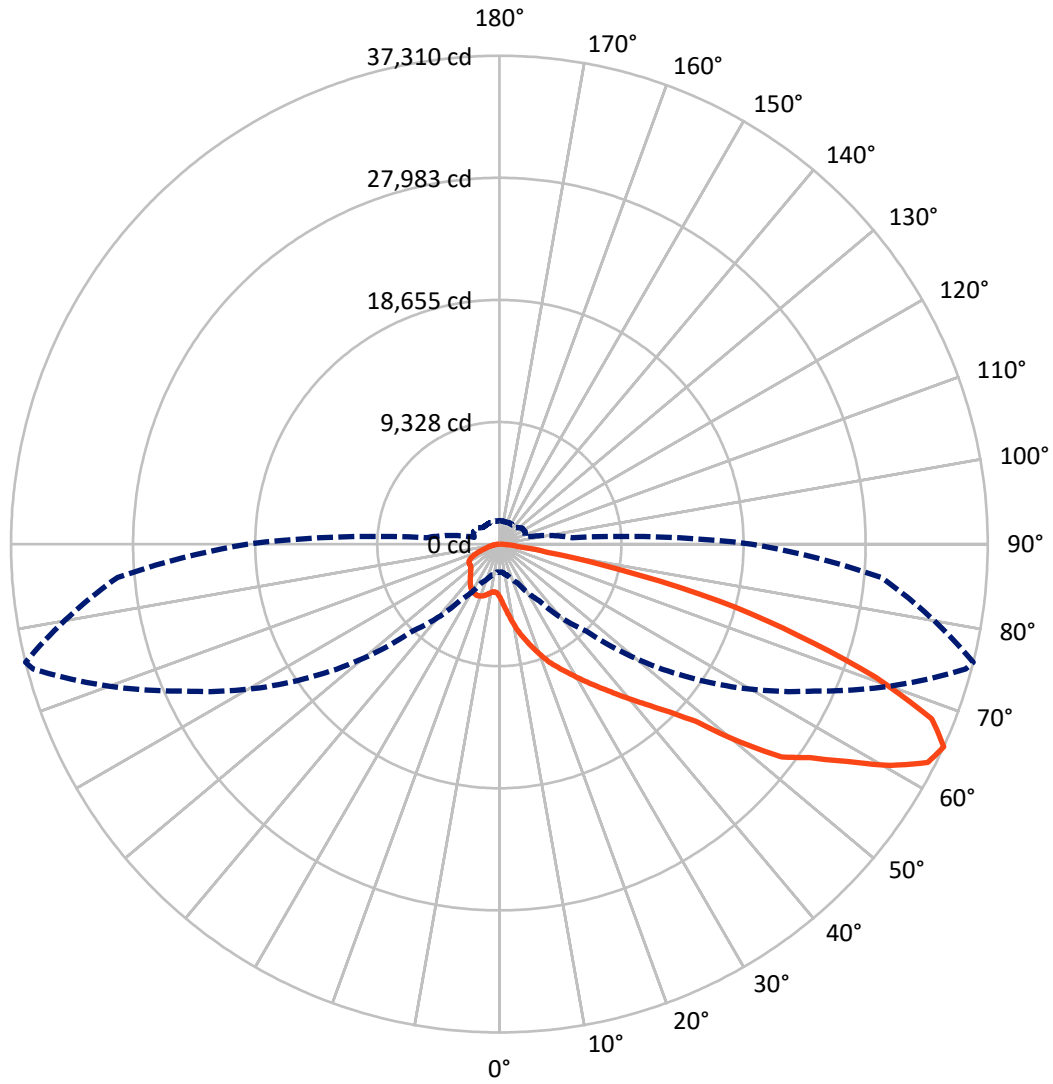
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - N/A

REPORT NUMBER: P641245
CATALOG NUMBER: GWS-SA5F-740-U-T2R-W

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P641245

CATALOG NUMBER: GWS-SA5F-740-U-T2R-W

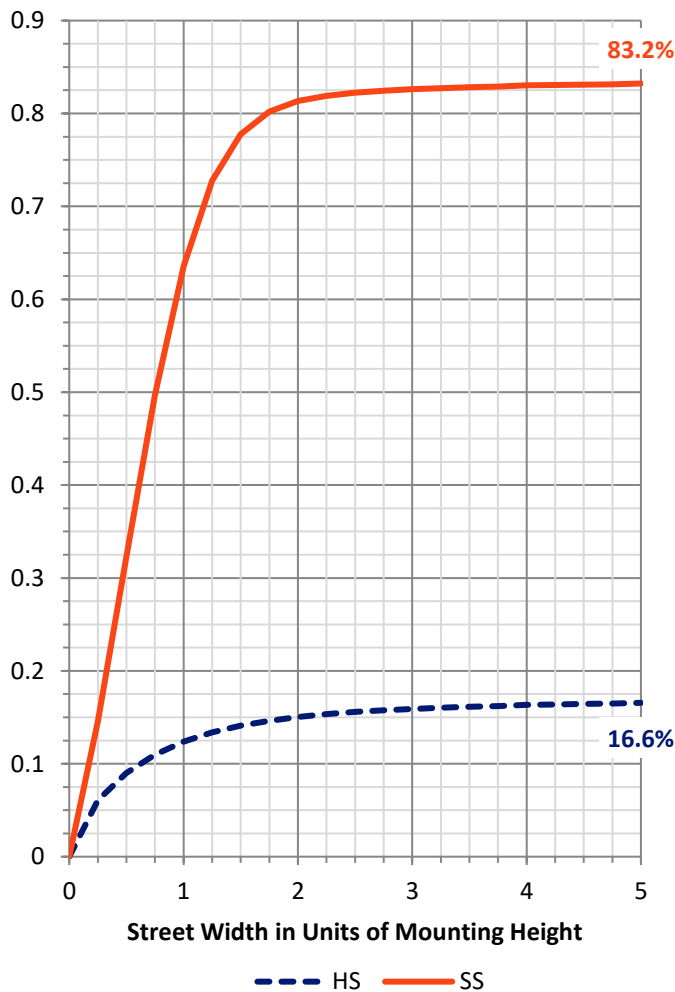
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7113.9	0.0	7113.9
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	35445.8	0.0	35445.8
	% Fixture	83.3	0.0	83.3
Total	Lumens	42559.7	0.0	42559.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.8	1.1
10°-20°	1823.8	4.3
20°-30°	3554.2	8.4
30°-40°	5944.3	14.0
40°-50°	8511.0	20.0
50°-60°	10075.9	23.7
60°-70°	8378.2	19.7
70°-80°	3428.6	8.1
80°-90°	365.0	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°	42559.7	100.0
0°-180°	42559.7	100.0

Coefficient of Utilization



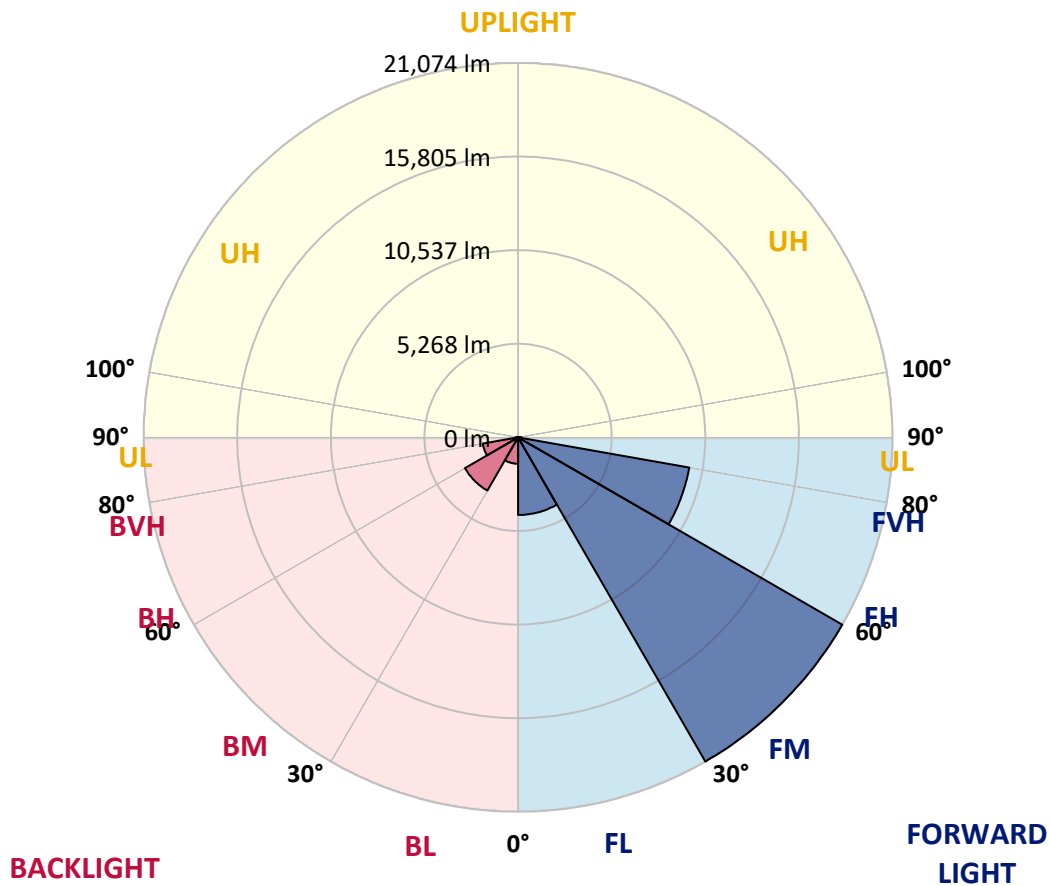
REPORT NUMBER: P641245

CATALOG NUMBER: GWS-SA5F-740-U-T2R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4368.6	10.3			
FM (30°-60°)	21074.0	49.5			
FH (60°-80°)	9785.6	23.0			G4/12000
FVH (80°-90°)	217.7	0.5			G2/225
BL (0°-30°)	1488.2	3.5	B3/2500		
BM (30°-60°)	3457.2	8.1	B3/5000		
BH (60°-80°)	2021.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	147.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4030.2	4030.2	4030.2	4030.2	4030.2	4030.2	4030.2	4030.2	4030.2	4030.2	4030.2
2.5°	5648.9	5669.9	5601.1	5577.1	5415.5	5197.1	5014.6	4739.4	4485.0	4446.1	4218.7
5°	7174.9	7085.1	7007.3	6956.4	6732.0	6483.7	6097.7	5580.1	5038.6	4972.7	4482.0
7.5°	8081.4	8066.5	7970.7	7940.8	7767.3	7518.9	7121.0	6477.7	5690.8	5583.1	4838.1
10°	8808.5	8799.5	8751.6	8778.6	8620.0	8377.6	7991.7	7327.4	6405.9	6298.2	5236.0
12.5°	9442.8	9457.8	9448.8	9547.5	9466.7	9278.2	8877.3	8147.3	7121.0	7004.3	5720.7
15°	9906.6	9918.5	9963.4	10178.8	10223.7	10184.8	9777.9	8952.1	7827.1	7659.6	6220.4
17.5°	10038.2	10062.2	10169.9	10516.9	10759.3	10920.9	10618.7	9771.9	8521.3	8338.8	6729.0
20°	10214.7	10241.7	10349.4	10711.4	11067.5	11435.5	11381.6	10603.7	9221.4	9071.8	7243.7
22.5°	11031.6	11010.6	10962.7	11136.3	11390.6	11848.4	11983.0	11402.6	9945.5	9801.8	7812.2
25°	12605.4	12566.5	12261.3	12102.7	12018.9	12297.2	12536.5	12129.6	10651.6	10436.2	8341.7
27.5°	14340.7	14319.8	13930.8	13553.8	13039.2	12919.5	13060.2	12763.9	11336.8	11118.3	8802.5
30°	15983.4	15920.5	15513.6	15040.9	14352.7	13838.1	13631.6	13386.3	12087.7	11860.4	9341.1
32.5°	17452.4	17371.6	16892.9	16369.3	15648.2	15040.9	14424.5	14047.5	12937.5	12674.2	9891.6
35°	18658.2	18577.4	18086.7	17530.2	16737.3	16288.5	15444.8	14765.6	13802.2	13535.9	10540.9
37.5°	19591.7	19516.9	19005.3	18457.8	17766.6	17410.5	16677.5	15573.4	14798.5	14520.3	11229.0
40°	20115.3	20061.5	19651.6	19217.7	18637.3	18329.1	18000.0	16593.7	15914.5	15636.3	12039.9
42.5°	20273.9	20238.0	19950.8	19726.4	19334.4	19101.0	19289.5	17793.5	17105.4	16863.0	12952.4
45°	19876.0	19876.0	19792.2	19905.9	19923.8	19920.8	20582.1	19148.9	18568.5	18302.2	14239.0
47.5°	18858.7	18924.5	19047.2	19606.7	20196.1	20689.8	22093.1	20956.1	20450.4	20232.0	16061.1
50°	16997.6	17177.2	17596.0	18688.1	19941.8	21198.4	23523.2	23628.0	24109.7	23723.7	18742.0
52.5°	14271.9	14245.0	15313.1	16869.0	18780.9	21219.4	24310.1	25985.7	27281.2	27014.9	20734.7
55°	11342.7	11297.9	12294.2	14439.5	17000.6	20417.5	24782.9	27065.8	29040.5	28801.2	22526.9
57.5°	8685.8	8629.0	9514.6	11450.4	14487.3	18715.1	24693.1	28352.3	31461.1	31338.4	24962.4
60°	5978.0	5909.2	6738.0	8431.5	11513.3	16112.0	23699.8	29013.6	34294.5	34336.4	27568.4
62.5°	3590.4	3551.5	4152.9	5466.4	8281.9	12886.6	21375.0	28612.7	36550.5	36739.0	29244.0
65°	2166.2	2139.3	2492.3	3261.3	5254.0	9403.9	17790.5	26563.1	36876.6	37310.4	29282.9
67.5°	1576.8	1579.8	1681.5	1986.7	3063.8	6073.8	13350.4	22888.9	35177.1	35625.9	27436.8
70°	1370.3	1376.3	1430.2	1499.0	1852.1	3476.7	8679.8	18068.8	30153.5	30500.6	23011.6
72.5°	1217.8	1217.8	1253.7	1289.6	1448.1	2118.3	4649.6	12629.3	23798.5	23891.3	17563.1
75°	1071.1	1062.2	1080.1	1098.1	1256.6	1481.0	2262.0	8799.5	17578.1	17362.7	11351.7
77.5°	852.7	843.7	846.7	864.7	1008.3	1059.2	1145.9	5496.3	9906.6	9350.1	5014.6
80°	607.4	601.4	634.3	679.2	745.0	649.3	718.1	2659.9	3928.5	3656.2	1944.8
82.5°	362.0	374.0	424.9	460.8	514.6	406.9	463.8	888.6	1391.3	1355.4	789.9
85°	50.9	53.9	152.6	176.5	221.4	158.6	245.3	400.9	556.5	595.4	278.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	20.9	71.8	158.6	161.6	68.8
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°	4030.2	4030.2	4030.2	4030.2	4030.2	4030.2	4030.2	4030.2	4030.2	4030.2	4030.2
2.5°	4102.1	3961.4	3761.0	3593.4	3452.8	3339.1	3243.3	3171.5	3150.6	3120.7	3120.7
5°	4251.7	3997.3	3638.3	3384.0	3237.4	3150.6	3090.8	3060.8	3045.9	3027.9	3018.9
7.5°	4458.1	4102.1	3617.3	3360.0	3246.3	3192.5	3153.6	3135.6	3123.7	3105.7	3105.7
10°	4742.3	4257.6	3683.2	3443.8	3354.1	3300.2	3255.3	3225.4	3198.5	3171.5	3165.6
12.5°	5050.5	4461.1	3802.9	3557.5	3461.8	3395.9	3333.1	3288.2	3255.3	3222.4	3213.4
15°	5391.6	4670.5	3931.5	3668.2	3548.5	3458.8	3384.0	3315.2	3270.3	3222.4	3216.4
17.5°	5726.7	4883.0	4039.2	3743.0	3590.4	3479.7	3372.0	3282.2	3225.4	3171.5	3156.6
20°	6127.6	5095.4	4114.0	3764.0	3581.4	3434.8	3306.2	3192.5	3129.6	3066.8	3057.8
22.5°	6495.7	5292.9	4149.9	3734.0	3512.6	3339.1	3189.5	3066.8	2998.0	2935.2	2923.2
25°	6851.7	5466.4	4135.0	3662.2	3407.9	3207.4	3051.9	2929.2	2863.4	2797.5	2779.6
27.5°	7195.8	5583.1	4075.1	3551.5	3276.3	3060.8	2911.2	2800.5	2743.7	2686.8	2662.9
30°	7533.9	5690.8	3982.4	3407.9	3108.7	2908.2	2785.6	2707.8	2650.9	2591.1	2573.1
32.5°	7875.0	5768.6	3841.7	3240.4	2938.2	2773.6	2698.8	2642.0	2582.1	2522.3	2504.3
35°	8219.1	5801.5	3671.2	3048.9	2794.5	2686.8	2659.9	2594.1	2513.3	2441.5	2417.5
37.5°	8629.0	5831.4	3458.8	2860.4	2668.9	2644.9	2639.0	2540.2	2444.5	2345.7	2318.8
40°	9122.7	5870.3	3240.4	2689.8	2567.2	2630.0	2606.0	2471.4	2279.9	2184.2	2154.3
42.5°	9727.0	5942.1	3013.0	2534.2	2492.3	2573.1	2546.2	2303.9	2175.2	2121.3	2106.4
45°	10615.7	6205.4	2785.6	2411.6	2435.5	2492.3	2450.5	2205.1	2154.3	2118.3	2100.4
47.5°	12198.5	6609.4	2588.1	2318.8	2390.6	2420.5	2259.0	2178.2	2139.3	2091.4	2070.5
50°	13844.1	6785.9	2429.5	2262.0	2339.8	2354.7	2154.3	2142.3	2115.4	2064.5	2043.5
52.5°	14957.1	6762.0	2333.8	2241.0	2297.9	2241.0	2106.4	2103.4	2085.4	2025.6	2001.7
55°	16213.7	6803.8	2291.9	2247.0	2279.9	2049.5	2046.5	2055.5	2046.5	1980.7	1968.7
57.5°	17910.2	6932.5	2270.9	2267.9	2267.9	1956.8	1989.7	2001.7	1983.7	1953.8	1944.8
60°	19540.9	6941.5	2232.0	2291.9	2259.0	1899.9	1923.9	1935.8	1914.9	1908.9	1905.9
62.5°	20154.2	6510.6	2145.3	2273.9	2223.1	1837.1	1855.1	1861.0	1840.1	1855.1	1852.1
65°	19241.7	5595.1	2001.7	2187.2	2112.4	1780.2	1768.3	1783.2	1747.3	1786.2	1789.2
67.5°	17084.4	4446.1	1783.2	2022.6	1956.8	1717.4	1693.5	1693.5	1633.6	1693.5	1690.5
70°	13775.2	3141.6	1463.1	1759.3	1786.2	1642.6	1630.6	1561.8	1466.1	1555.8	1546.9
72.5°	10442.1	2256.0	1151.9	1391.3	1537.9	1537.9	1540.9	1424.2	1313.5	1355.4	1319.5
75°	6615.3	1588.8	921.5	1065.2	1205.8	1349.4	1418.2	1202.8	1104.1	1086.1	1068.1
77.5°	2980.0	1044.2	718.1	816.8	855.7	1065.2	1295.5	1035.2	900.6	861.7	849.7
80°	1247.7	649.3	511.6	577.5	526.6	894.6	1143.0	804.9	661.2	607.4	568.5
82.5°	547.5	386.0	326.1	311.2	329.1	664.2	852.7	535.6	412.9	559.5	565.5
85°	230.4	203.5	167.6	152.6	134.6	254.3	400.9	209.4	257.3	146.6	119.7
87.5°	53.9	59.8	44.9	29.9	18.0	3.0	0.0	0.0	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)