

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: P643811

Luminaire Tested: GWS-SA6F-760-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643811
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-SA6F-760-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49199.5 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

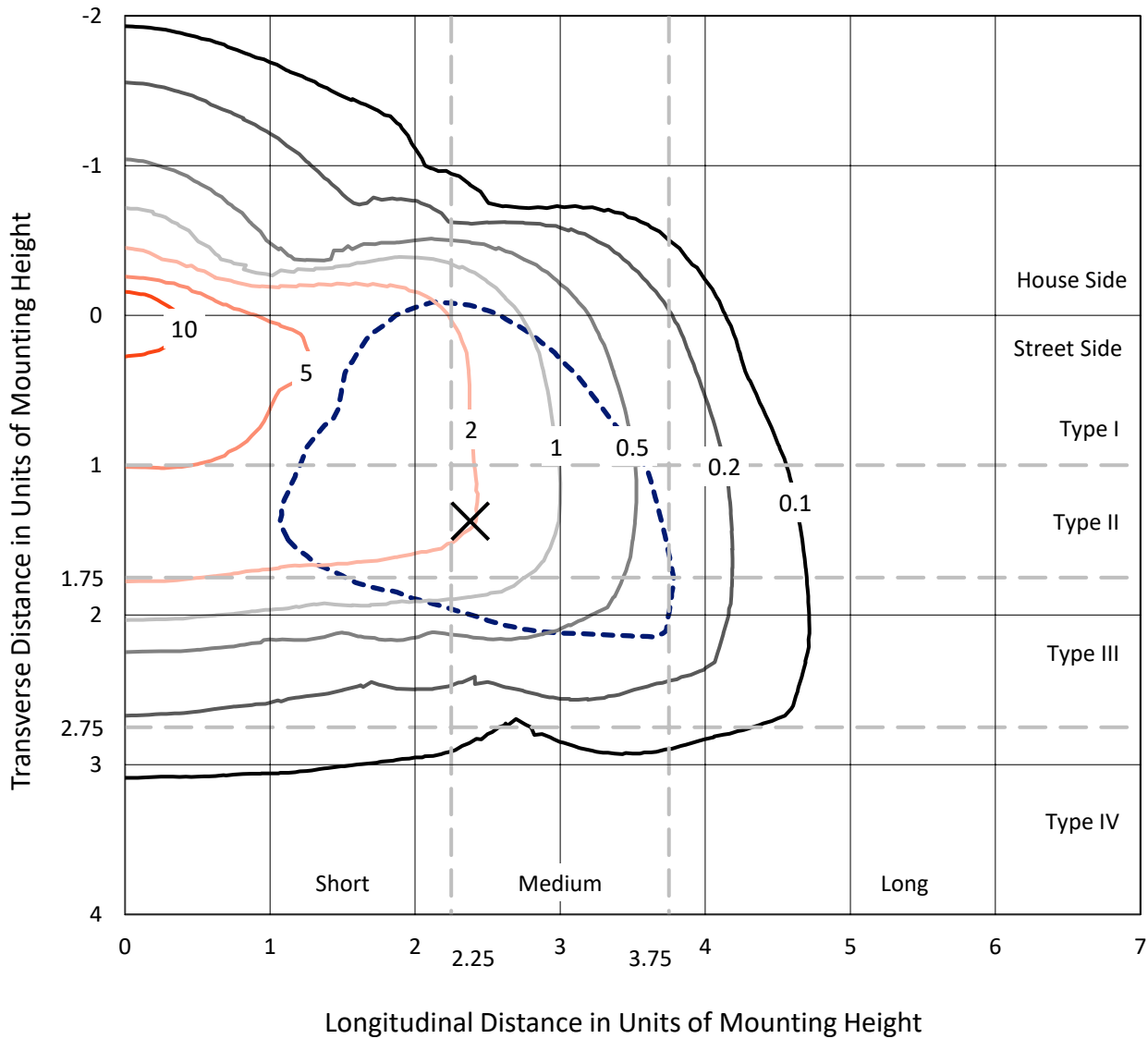
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

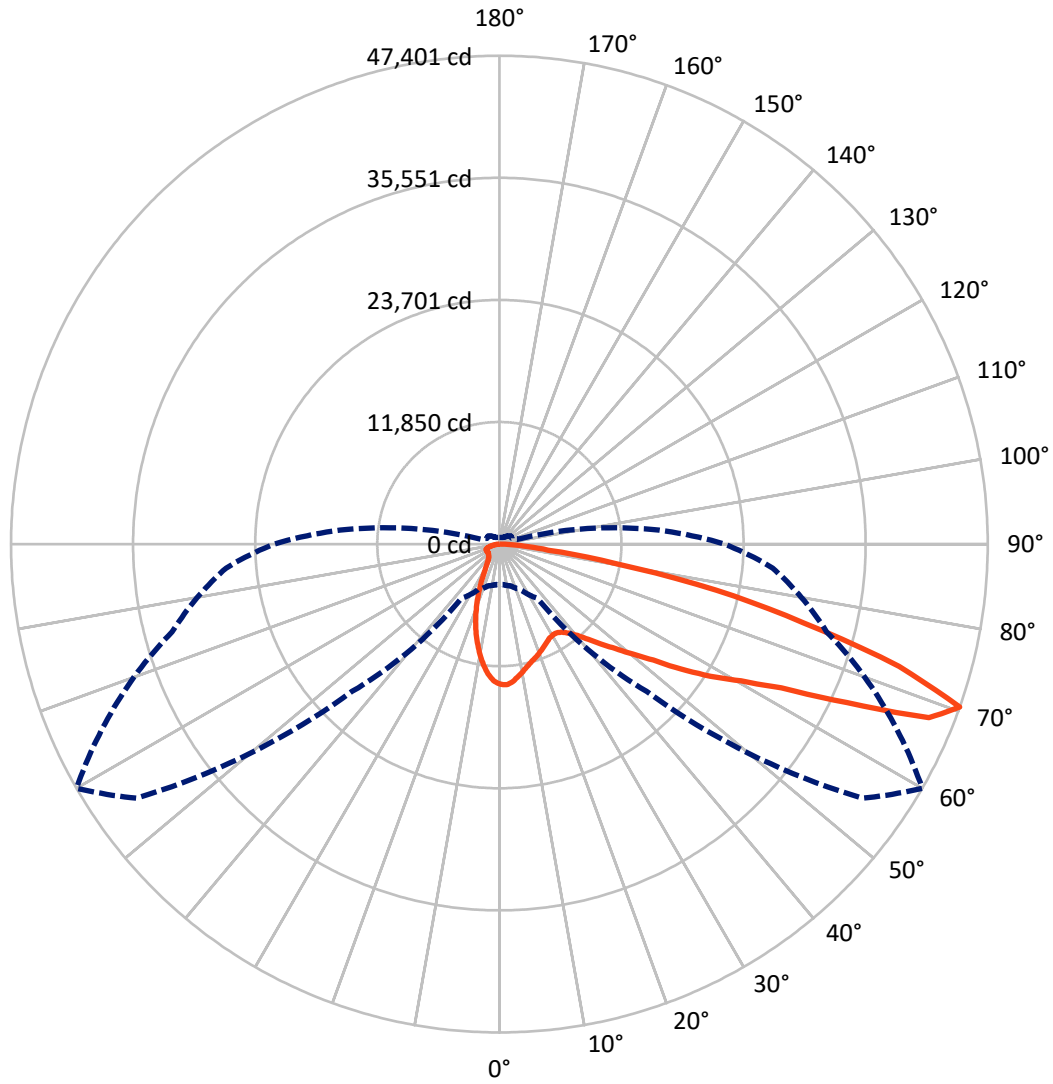
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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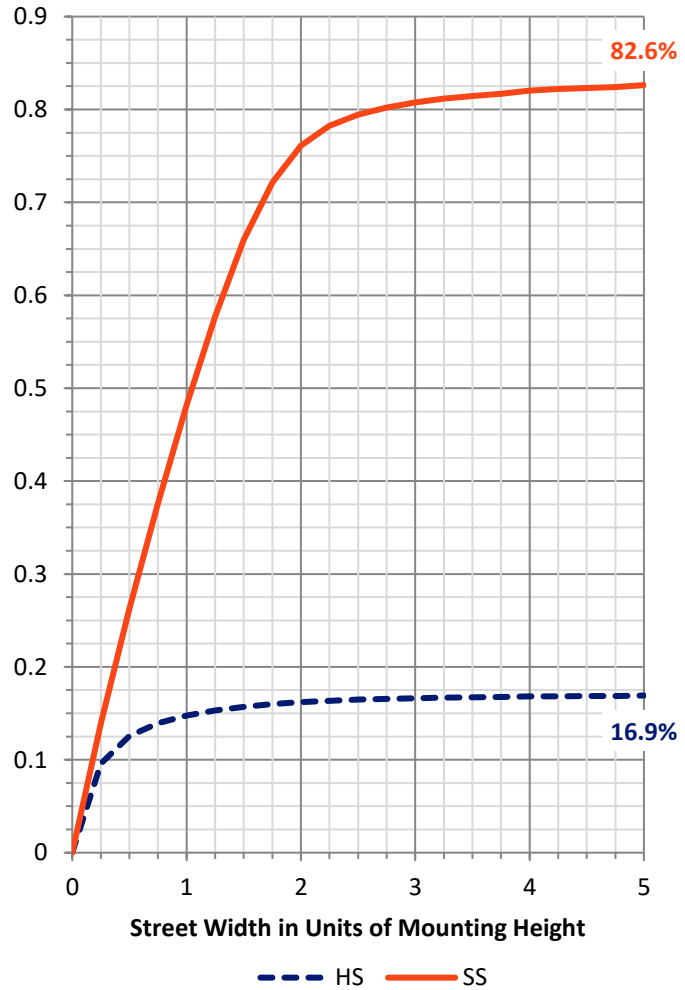
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8414.3	0.0	8414.3
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	40785.2	0.0	40785.2
	% Fixture	82.9	0.0	82.9
Total	Lumens	49199.5	0.0	49199.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1173.5	2.4
10°-20°	2629.0	5.3
20°-30°	3366.9	6.8
30°-40°	4424.9	9.0
40°-50°	6419.7	13.0
50°-60°	10016.3	20.4
60°-70°	13113.3	26.7
70°-80°	7251.2	14.7
80°-90°	804.7	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°	49199.5	100.0
0°-180°	49199.5	100.0

Coefficient of Utilization



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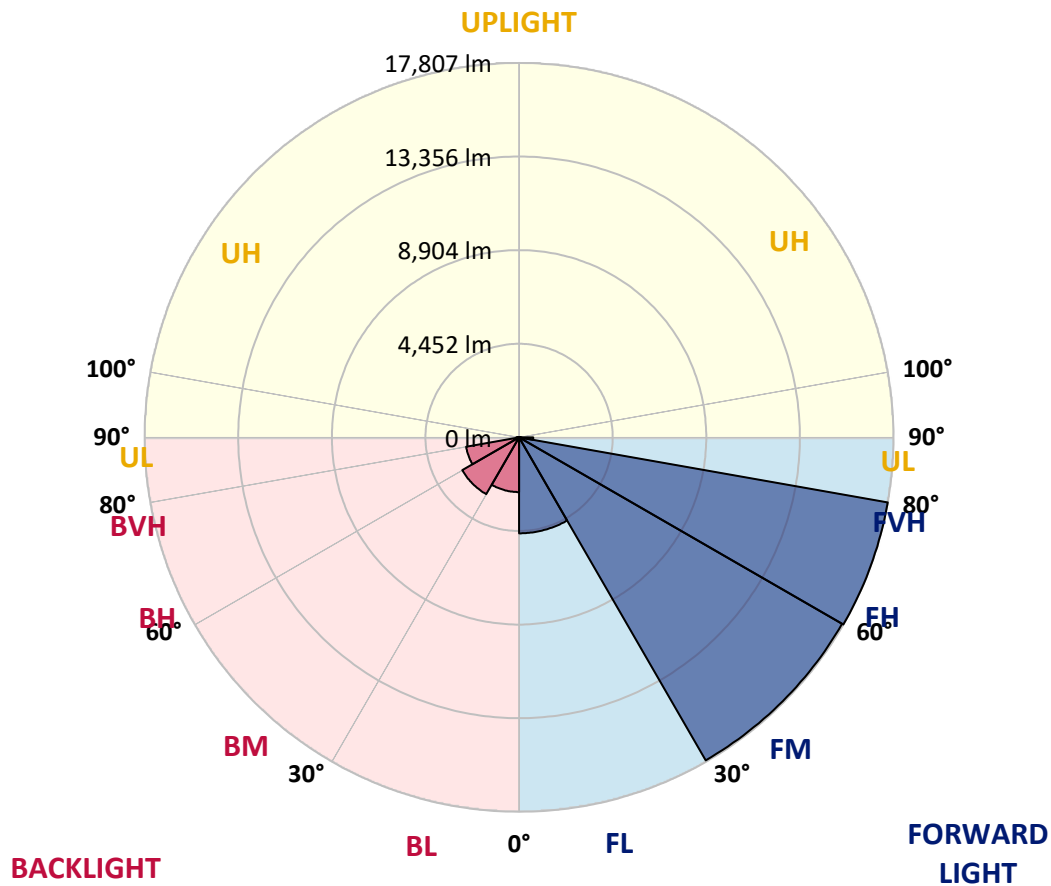
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4566.0	9.3			
FM (30°-60°)	17741.2	36.1			
FH (60°-80°)	17807.5	36.2			G5
FVH (80°-90°)	670.5	1.4			G4/750
BL (0°-30°)	2603.3	5.3	B4/5000		
BM (30°-60°)	3119.8	6.3	B3/5000		
BH (60°-80°)	2557.1	5.2	B4/5000		G4/5000
BVH (80°-90°)	134.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	13614.1	13614.1	13614.1	13614.1	13614.1	13614.1	13614.1	13614.1	13614.1	13614.1	13614.1
2.5°	13423.4	13437.8	13477.3	13534.9	13592.5	13621.3	13693.3	13671.7	13657.3	13628.5	13592.5
5°	12829.4	12858.2	12894.2	13005.8	13131.8	13232.6	13394.6	13412.6	13419.8	13434.2	13376.6
7.5°	12073.5	12080.7	12167.1	12314.6	12480.2	12653.0	12923.0	12998.6	13063.4	13135.4	13088.6
10°	11238.3	11256.3	11321.1	11533.5	11817.9	12073.5	12437.0	12563.0	12699.8	12858.2	12793.4
12.5°	10554.4	10558.0	10662.4	10889.2	11198.7	11544.3	11997.9	12149.1	12329.0	12577.4	12519.8
15°	10010.8	10010.8	10108.0	10302.4	10658.8	11065.5	11605.5	11799.9	12044.7	12379.4	12278.6
17.5°	9578.9	9582.5	9643.6	9848.8	10165.6	10615.6	11256.3	11519.1	11789.1	12231.8	12080.7
20°	9352.1	9334.1	9344.9	9470.9	9740.8	10176.4	10907.1	11213.1	11576.7	12131.1	11900.7
22.5°	9341.3	9308.9	9262.1	9272.9	9431.3	9791.2	10532.8	10903.5	11360.7	12048.3	11717.1
25°	9524.9	9488.9	9406.1	9312.5	9298.1	9514.1	10180.0	10601.2	11137.5	12012.3	11540.7
27.5°	9834.4	9809.2	9701.2	9560.9	9413.3	9406.1	9913.6	10352.8	10975.5	12048.3	11414.7
30°	10244.8	10201.6	10133.2	9953.2	9730.0	9499.7	9809.2	10219.6	10867.6	12163.5	11360.7
32.5°	10709.2	10684.0	10619.2	10439.2	10201.6	9834.4	9892.0	10248.4	10867.6	12365.0	11371.5
35°	11202.3	11198.7	11198.7	11079.9	10817.2	10360.0	10219.6	10493.2	11033.1	12689.0	11486.7
37.5°	11681.1	11677.5	11792.7	11835.9	11537.1	11043.9	10777.6	10982.7	11396.7	13167.8	11771.1
40°	12069.9	12084.3	12336.2	12552.2	12386.6	11929.5	11555.1	11659.5	11987.1	13848.1	12267.8
42.5°	12462.2	12501.8	12879.8	13261.4	13326.2	12930.2	12552.2	12613.4	12833.0	14748.0	13009.4
45°	12890.6	12908.6	13437.8	13970.5	14283.7	14049.7	13740.1	13822.9	13873.3	15860.4	14114.5
47.5°	13304.6	13351.4	14035.3	14766.0	15360.0	15338.4	15165.6	15140.4	15151.2	17213.9	15421.2
50°	13869.7	13938.1	14740.9	15622.8	16493.9	16893.5	16943.9	16753.1	16673.9	18718.5	17048.3
52.5°	14942.4	14942.4	15662.4	16529.9	17699.8	18689.7	19028.1	18714.9	18463.0	20309.6	18776.1
55°	16285.1	16342.7	16915.1	17617.0	19100.1	20579.6	21724.3	21378.7	20666.0	22041.1	20586.8
57.5°	16882.7	16954.7	17861.8	18952.5	20932.4	22728.6	24316.1	24193.7	23153.4	23840.9	22465.8
60°	15802.8	15954.0	17203.1	19031.7	22591.8	26195.2	27314.7	26958.3	25471.6	25730.8	24503.3
62.5°	13182.2	13347.8	14733.7	17285.9	22361.5	29942.5	32041.1	30727.2	28365.8	28117.4	27217.5
65°	7865.4	7858.2	9524.9	12908.6	19521.3	30982.8	39521.3	37069.9	32836.6	31393.2	30010.9
67.5°	5000.0	4989.2	5338.4	6839.5	12991.4	28434.2	44330.5	44967.7	38909.4	33801.4	30241.2
70°	3945.3	3941.7	4193.7	4877.6	6425.5	20234.0	42991.4	47401.1	42577.5	32883.4	26627.1
72.5°	2876.2	2883.4	3272.1	4085.7	4956.8	10158.4	34812.9	40558.0	39161.3	29028.1	21616.3
75°	2066.2	2077.0	2311.0	3128.2	4571.6	5554.4	23149.8	30496.8	29794.9	23268.6	14870.4
77.5°	1313.9	1328.3	1533.5	2192.2	3693.3	4485.3	14035.3	21529.9	19823.7	13110.2	5288.0
80°	802.7	849.5	1022.3	1634.3	2951.8	3365.7	7015.9	11342.7	9928.0	3596.1	1778.3
82.5°	414.0	450.0	615.6	1011.5	2033.8	2955.4	3970.5	4766.0	3074.2	1504.7	946.7
85°	129.6	151.2	216.0	410.4	968.3	1832.3	2627.8	2368.6	1411.1	709.1	439.2
87.5°	32.4	32.4	36.0	36.0	39.6	82.8	507.6	536.4	374.4	223.2	180.0
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°	13614.1	13614.1	13614.1	13614.1	13614.1	13614.1	13614.1	13614.1	13614.1	13614.1	13614.1
2.5°	13520.5	13434.2	13398.2	13394.6	13304.6	13175.0	13088.6	13027.4	12991.4	12984.2	12984.2
5°	13279.4	13167.8	13020.2	12908.6	12667.4	12422.6	12217.4	12102.3	11969.1	11951.1	11947.5
7.5°	12959.0	12797.0	12516.2	12203.0	11781.9	11375.1	11029.5	10795.6	10561.6	10518.4	10504.0
10°	12613.4	12393.8	11915.1	11364.3	10734.4	10126.0	9596.9	9182.9	8909.3	8714.9	8678.9
12.5°	12271.4	11979.9	11277.9	10457.2	9593.3	8761.7	7966.2	7289.4	6799.9	6515.5	6465.1
15°	11951.1	11544.3	10583.2	9535.7	8412.5	7275.0	6148.3	5270.0	4582.4	4337.7	4280.1
17.5°	11659.5	11151.9	9910.0	8581.7	7181.4	5694.8	4413.3	3632.1	3228.9	3106.6	3077.8
20°	11367.9	10748.8	9226.1	7577.4	5874.7	4208.1	3225.3	2858.2	2707.0	2660.2	2645.8
22.5°	11054.7	10306.0	8480.9	6587.5	4553.6	3149.8	2638.6	2476.6	2429.8	2433.4	2429.8
25°	10741.6	9856.0	7699.8	5511.2	3390.9	2555.8	2303.8	2242.6	2253.4	2285.8	2293.0
27.5°	10482.4	9456.5	6933.1	4330.5	2649.4	2199.4	2080.6	2077.0	2116.6	2159.8	2167.0
30°	10295.2	9100.1	6177.1	3329.7	2181.4	1954.6	1907.9	1929.4	1976.2	2008.6	2019.4
32.5°	10162.0	8794.1	5370.8	2617.0	1911.5	1781.9	1760.3	1781.9	1810.7	1843.1	1850.3
35°	10115.2	8570.9	4578.8	2134.6	1727.9	1655.9	1641.5	1652.3	1666.7	1684.7	1691.9
37.5°	10219.6	8459.3	3750.9	1857.5	1616.3	1573.1	1551.5	1544.3	1547.9	1555.1	1558.7
40°	10529.2	8509.7	3074.2	1695.5	1544.3	1504.7	1468.7	1454.3	1450.7	1457.9	1454.3
42.5°	11061.9	8722.1	2584.6	1601.9	1486.7	1429.1	1389.5	1375.1	1375.1	1393.1	1393.1
45°	11843.1	9139.7	2231.8	1533.5	1436.3	1364.3	1321.1	1313.9	1328.3	1357.1	1360.7
47.5°	12987.8	9751.6	2019.4	1483.1	1389.5	1306.7	1263.5	1259.9	1288.7	1335.5	1339.1
50°	14344.9	10633.6	1904.3	1447.1	1357.1	1259.9	1216.7	1220.3	1252.7	1303.1	1313.9
52.5°	15979.2	11835.9	1911.5	1432.7	1339.1	1231.1	1187.9	1180.7	1213.1	1263.5	1274.3
55°	17667.4	13297.4	2051.8	1436.3	1313.9	1216.7	1159.1	1133.9	1162.7	1198.7	1202.3
57.5°	19524.9	14946.0	2401.0	1429.1	1281.5	1202.3	1133.9	1076.3	1094.3	1115.9	1126.7
60°	21619.9	16886.3	3153.4	1443.5	1267.1	1169.9	1083.5	1007.9	1004.3	1018.7	1022.3
62.5°	24420.5	19524.9	3999.3	1468.7	1299.5	1130.3	1007.9	928.7	914.3	921.5	925.1
65°	26562.3	20784.8	3732.9	1447.1	1367.9	1101.5	935.9	853.1	824.3	817.1	817.1
67.5°	25691.2	19118.1	2599.0	1389.5	1400.3	1105.1	878.3	773.9	737.9	719.9	716.3
70°	21861.1	15529.2	1807.1	1331.9	1364.3	1097.9	817.1	709.1	662.3	637.2	633.6
72.5°	17271.5	11857.5	1461.5	1216.7	1238.3	989.9	727.1	637.2	597.6	565.2	565.2
75°	11115.9	7235.4	1220.3	1083.5	1011.5	770.3	630.0	568.8	529.2	496.8	496.8
77.5°	3740.1	2685.4	946.7	917.9	755.9	579.6	529.2	489.6	457.2	428.4	424.8
80°	1519.1	1274.3	694.7	694.7	529.2	442.8	414.0	396.0	374.4	338.4	338.4
82.5°	881.9	773.9	486.0	421.2	352.8	306.0	288.0	270.0	270.0	244.8	244.8
85°	424.8	428.4	291.6	259.2	201.6	176.4	169.2	158.4	154.8	140.4	136.8
87.5°	230.4	234.0	147.6	115.2	79.2	68.4	57.6	54.0	50.4	46.8	46.8
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)