

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: P640995

Luminaire Tested: GWS-SA5F-722-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-722-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31307.4 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

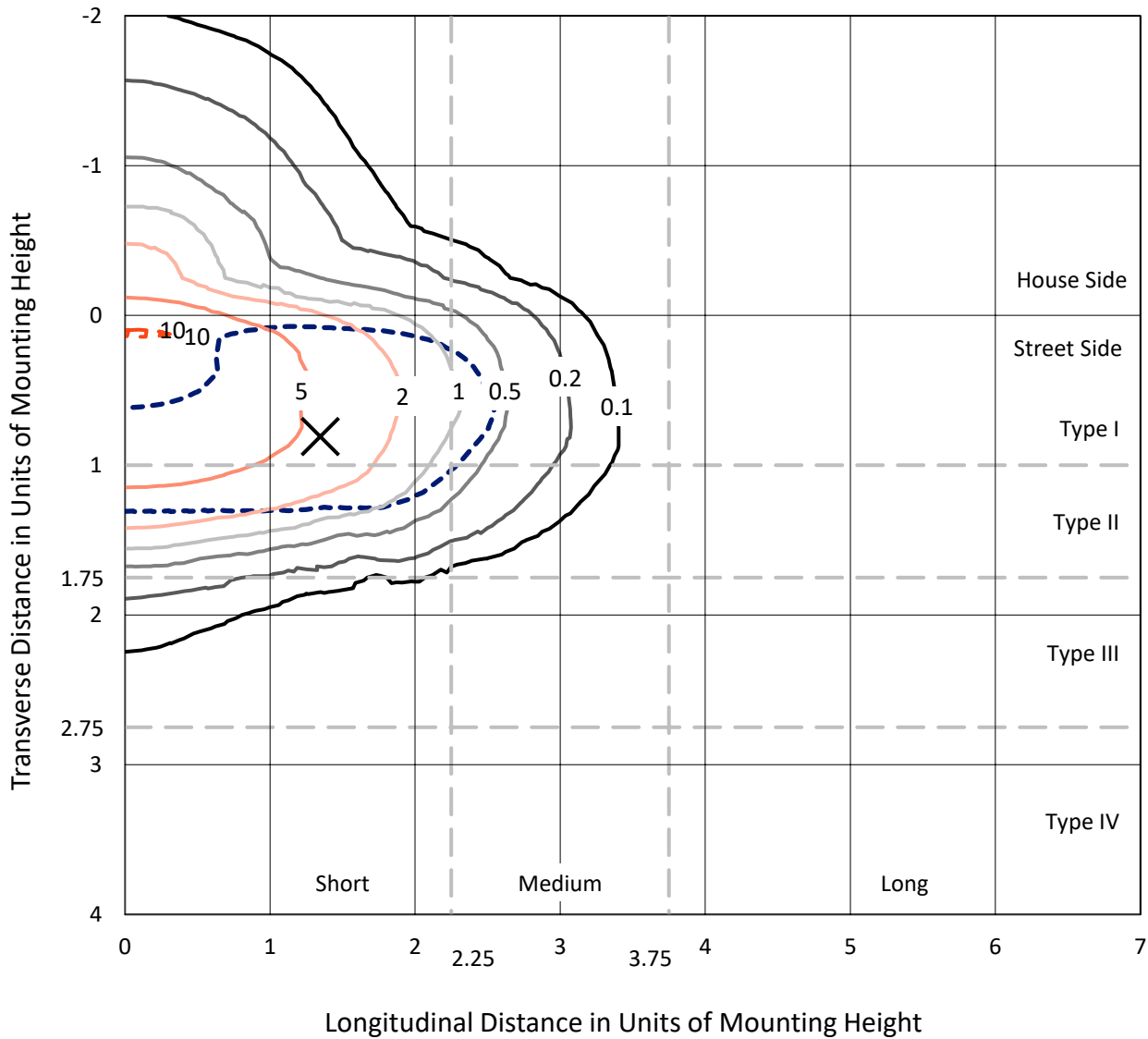
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640995
 CATALOG NUMBER: GWS-SA5F-722-U-AFL-W

Iso-Footcandle Lines of Horizontal Illumination

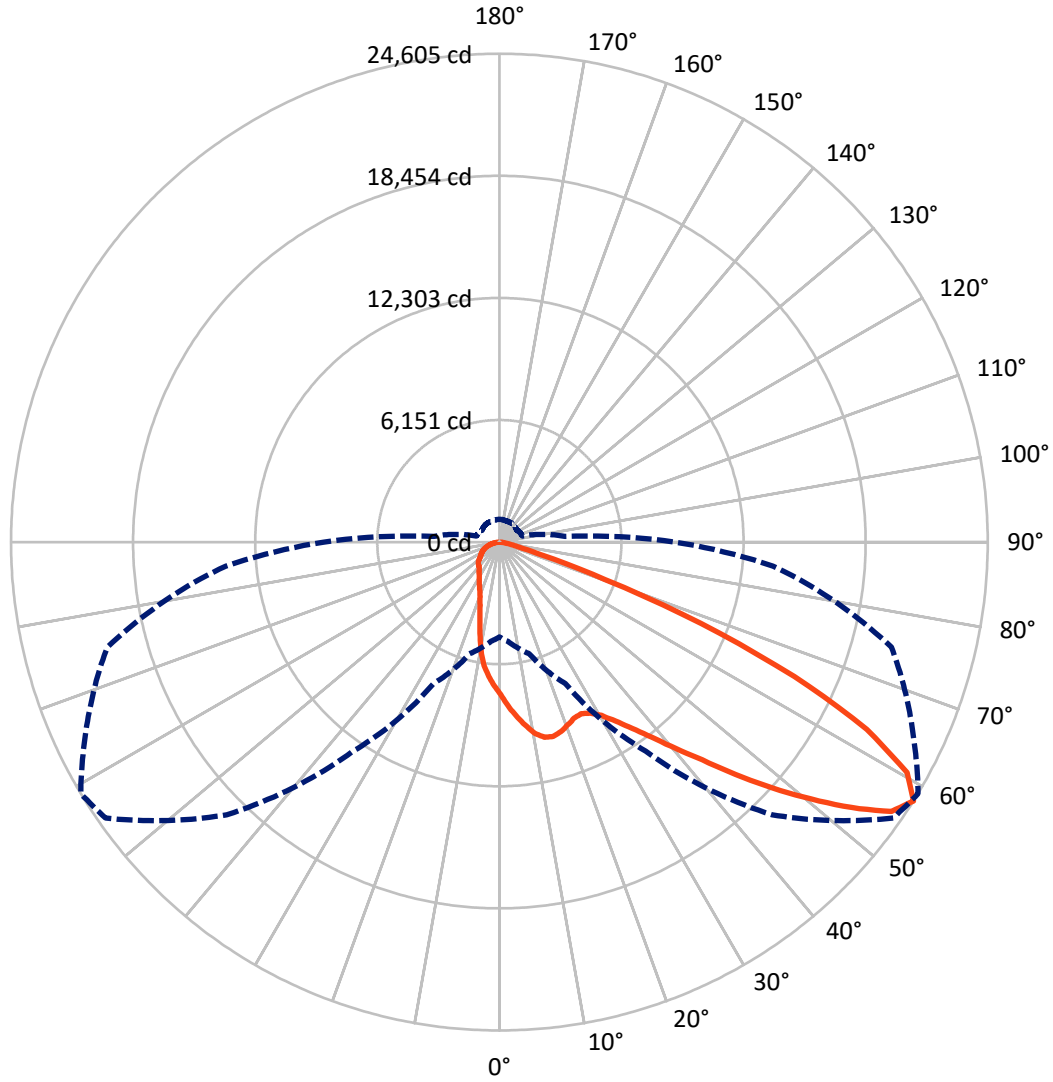
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P640995
CATALOG NUMBER: GWS-SA5F-722-U-AFL-W

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P640995

CATALOG NUMBER: GWS-SA5F-722-U-AFL-W

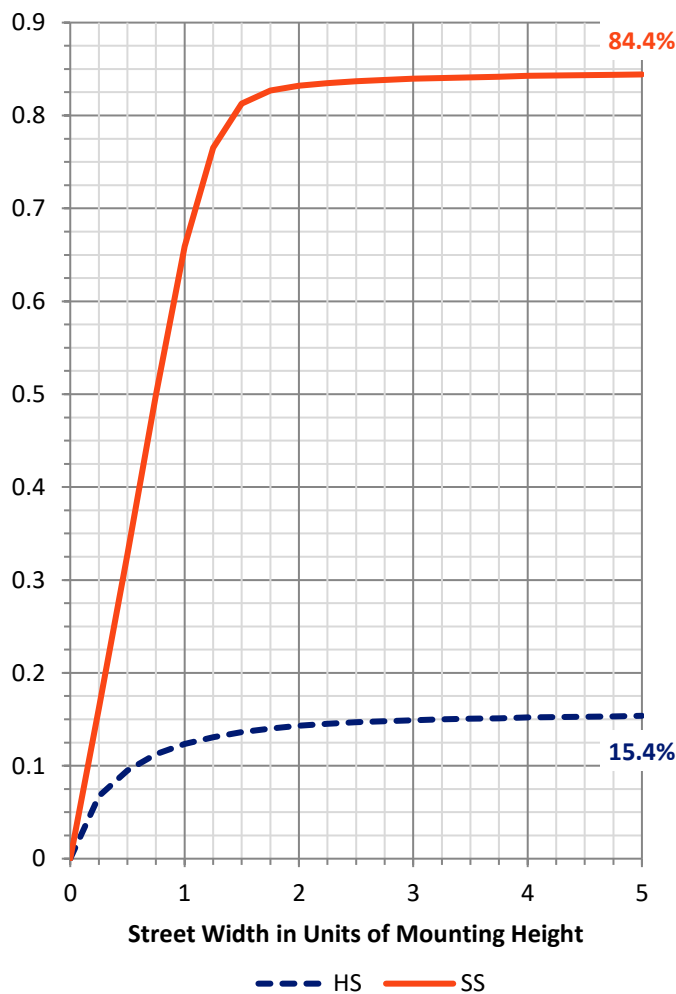
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4858.8	0.0	4858.8
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	26448.7	0.0	26448.7
	% Fixture	84.5	0.0	84.5
Total	Lumens	31307.4	0.0	31307.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	713.6	2.3
10°-20°	1808.3	5.8
20°-30°	2931.2	9.4
30°-40°	4715.2	15.1
40°-50°	7322.3	23.4
50°-60°	7887.1	25.2
60°-70°	4577.4	14.6
70°-80°	1195.0	3.8
80°-90°	157.4	0.5
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°	31307.4	100.0
0°-180°	31307.4	100.0

Coefficient of Utilization



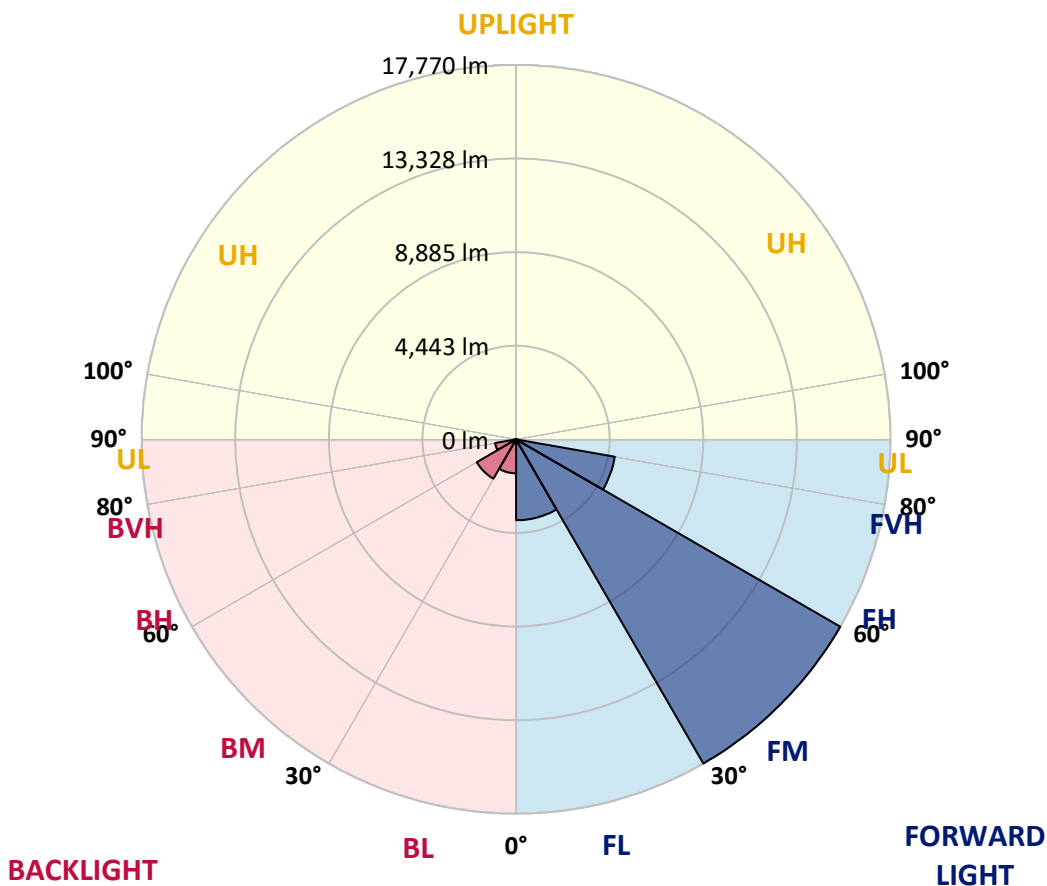
REPORT NUMBER: P640995

CATALOG NUMBER: GWS-SA5F-722-U-AFL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3841.1	12.3			
FM (30°-60°)	17770.4	56.8			
FH (60°-80°)	4761.7	15.2			G2/5000
FVH (80°-90°)	75.4	0.2			G1/100
BL (0°-30°)	1611.9	5.1	B3/2500		
BM (30°-60°)	2154.2	6.9	B2/2500		
BH (60°-80°)	1010.6	3.2	B3/2500		G3/2500
BVH (80°-90°)	82.0	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-G3
 Type II Short





REPORT NUMBER: P640995

CATALOG NUMBER: GWS-SA5F-722-U-AFL-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7685.3	7685.3	7685.3	7685.3	7685.3	7685.3	7685.3	7685.3	7685.3	7685.3	7685.3
2.5°	8716.8	8644.1	8694.8	8604.4	8566.9	8467.8	8339.9	8254.0	8121.7	7949.8	7799.9
5°	9583.0	9532.3	9543.3	9446.3	9360.4	9195.1	8932.8	8787.3	8562.5	8216.5	7894.7
7.5°	9556.5	9616.0	9649.1	9732.9	9757.1	9741.7	9505.8	9303.1	9056.2	8536.1	8051.2
10°	8566.9	8679.3	8780.7	9067.2	9415.5	9856.3	9911.4	9790.2	9541.1	8943.8	8238.5
12.5°	7489.2	7575.1	7665.5	8009.3	8542.7	9424.3	10021.6	10096.5	9997.3	9347.2	8450.1
15°	6960.2	6999.9	7085.9	7312.9	7738.2	8716.8	9829.8	10158.2	10336.8	9774.7	8688.2
17.5°	6938.2	6955.8	6997.7	7118.9	7414.2	8170.2	9483.8	10034.8	10603.4	10226.6	8965.9
20°	7394.4	7348.1	7321.7	7319.5	7464.9	7987.3	9148.8	9836.4	10729.1	10689.4	9263.4
22.5°	8027.0	8042.4	7985.1	7844.0	7826.4	8117.3	8981.3	9635.9	10766.5	11099.3	9538.9
25°	8924.0	9001.1	8831.4	8562.5	8430.3	8494.2	9084.9	9574.2	10762.1	11441.0	9710.8
27.5°	9970.9	10030.4	9858.5	9505.8	9232.5	9078.3	9393.4	9757.1	10799.6	11736.3	9814.4
30°	11163.2	11183.1	10947.3	10577.0	10178.1	9847.5	9907.0	10134.0	10991.3	12124.2	9935.6
32.5°	12620.1	12703.8	12346.8	11760.5	11202.9	10779.8	10596.8	10742.3	11405.7	12582.6	10123.0
35°	14469.2	14497.9	14043.9	13204.2	12415.1	11828.9	11445.4	11522.5	12036.0	13224.0	10405.1
37.5°	16212.6	16241.3	15758.6	14978.4	13849.9	13047.7	12492.3	12457.0	12842.7	14129.8	10865.7
40°	17319.0	17400.6	17184.6	16695.3	15617.5	14535.4	13781.6	13660.4	13900.6	15238.4	11507.1
42.5°	17914.1	17949.4	17945.0	18008.9	17367.5	16292.0	15236.2	14993.8	15154.7	16435.2	12155.0
45°	17918.5	18006.7	18242.5	18857.4	18886.1	18216.0	17074.4	16695.3	16547.6	17640.8	12831.7
47.5°	17116.2	17211.0	17859.0	19069.0	19961.6	20113.7	19276.2	18515.8	17894.3	18678.9	13387.1
50°	14687.4	14925.5	16159.7	18299.8	20173.2	21634.4	21376.6	20345.1	19091.0	19481.1	13735.3
52.5°	12578.2	12569.4	13329.8	16126.7	19289.4	22304.5	23408.7	22227.3	20274.6	19990.3	13823.5
55°	9210.5	9261.2	10039.2	12333.6	16931.1	21656.5	24526.1	23959.7	21632.2	20261.4	13788.2
57.5°	4776.1	5027.3	5825.2	7870.5	12864.7	19426.0	24228.5	24605.4	23011.9	20453.1	13834.5
60°	2413.4	2364.9	2651.4	3757.8	7453.9	15172.3	22394.8	23596.0	23261.0	20603.0	13863.1
62.5°	1611.1	1597.9	1518.6	1741.2	3045.9	8985.7	19091.0	20774.9	21530.9	20250.3	13497.3
65°	1395.1	1368.7	1223.2	1214.4	1478.9	3727.0	13993.2	16331.6	17795.1	18683.3	12622.3
67.5°	1256.3	1216.6	1068.9	996.2	1062.3	1637.6	7885.9	10953.9	13140.2	15800.5	10704.8
70°	1121.8	1102.0	954.3	848.5	841.9	998.4	2904.9	5653.3	8040.2	10779.8	7826.4
72.5°	1005.0	969.8	844.1	742.7	692.1	707.5	1260.7	2177.5	4161.1	6724.4	4681.3
75°	870.6	844.1	733.9	632.5	570.8	517.9	769.2	1007.2	1897.6	3195.8	2210.6
77.5°	672.2	654.6	579.7	502.5	467.2	385.7	467.2	634.8	877.2	1346.6	1150.5
80°	390.1	401.1	432.0	392.3	343.8	275.5	304.2	365.9	526.8	729.5	652.4
82.5°	196.2	209.4	279.9	227.0	205.0	160.9	180.7	216.0	275.5	403.3	255.7
85°	15.4	15.4	50.7	57.3	70.5	57.3	72.7	88.2	125.6	160.9	86.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.6	11.0	19.8	37.5	24.2
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: P640995
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7685.3	7685.3	7685.3	7685.3	7685.3	7685.3	7685.3	7685.3	7685.3	7685.3	7685.3
2.5°	7698.6	7586.2	7451.7	7341.5	7171.8	7081.4	6966.8	6825.8	6768.5	6742.0	6726.6
5°	7714.0	7515.6	7229.1	6964.6	6671.5	6440.1	6182.2	5913.3	5759.0	5721.6	5695.1
7.5°	7771.3	7493.6	7037.4	6601.0	6056.6	5551.9	5060.4	4573.3	4324.2	4229.5	4220.7
10°	7850.6	7484.8	6843.4	6118.3	5199.2	4401.4	3826.1	3444.8	3284.0	3231.1	3213.4
12.5°	7949.8	7478.2	6587.7	5448.3	4209.6	3455.9	3127.5	3065.8	3087.8	3083.4	3083.4
15°	8075.4	7487.0	6279.2	4690.1	3405.2	2999.6	3006.3	3079.0	3147.3	3158.3	3158.3
17.5°	8212.1	7478.2	5831.8	3929.7	2922.5	2891.6	2993.0	3094.4	3156.1	3164.9	3164.9
20°	8359.8	7436.3	5267.6	3213.4	2710.9	2823.3	2933.5	3012.9	3050.3	3059.1	3059.1
22.5°	8447.9	7317.3	4654.8	2719.7	2576.5	2715.3	2788.1	2869.6	2874.0	2803.5	2801.3
25°	8434.7	7094.7	3956.2	2402.4	2433.2	2554.4	2647.0	2589.7	2519.2	2479.5	2472.9
27.5°	8350.9	6759.7	3244.3	2162.1	2263.5	2400.2	2371.5	2323.0	2305.4	2261.3	2256.9
30°	8245.2	6347.5	2605.1	1974.8	2087.2	2212.8	2168.7	2164.3	2146.7	2098.2	2098.2
32.5°	8143.8	5922.1	2122.4	1835.9	1974.8	1983.6	2045.3	2049.7	2040.9	1957.2	1948.3
35°	8115.1	5496.8	1796.3	1725.7	1864.6	1860.2	1948.3	1946.1	1794.1	1677.2	1675.0
37.5°	8201.1	5064.8	1602.3	1635.4	1712.5	1769.8	1840.3	1712.5	1661.8	1591.3	1586.9
40°	8384.0	4665.9	1503.1	1582.5	1615.5	1699.3	1589.1	1597.9	1584.7	1531.8	1525.2
42.5°	8626.4	4326.4	1448.0	1564.8	1560.4	1582.5	1461.3	1496.5	1516.4	1476.7	1470.1
45°	8860.1	4031.1	1419.4	1498.7	1520.8	1392.9	1368.7	1401.7	1432.6	1417.2	1410.6
47.5°	9032.0	3775.4	1403.9	1408.4	1470.1	1329.0	1289.3	1304.8	1342.2	1348.8	1346.6
50°	9084.9	3557.3	1386.3	1333.4	1320.2	1265.1	1234.2	1229.8	1273.9	1304.8	1309.2
52.5°	8983.5	3363.3	1340.0	1267.3	1203.4	1212.2	1201.2	1179.1	1223.2	1265.1	1269.5
55°	8833.6	3253.1	1267.3	1203.4	1128.4	1163.7	1168.1	1148.3	1176.9	1205.6	1205.6
57.5°	8844.6	3317.0	1196.8	1143.9	1062.3	1108.6	1132.9	1124.0	1124.0	1146.1	1148.3
60°	8917.4	3409.6	1150.5	1068.9	996.2	1044.7	1099.8	1091.0	1071.1	1099.8	1099.8
62.5°	8708.0	3286.2	1119.6	996.2	925.7	983.0	1049.1	1044.7	1022.7	1068.9	1073.3
65°	8090.9	2955.6	1084.4	905.8	855.2	921.3	978.6	994.0	974.2	1035.9	1046.9
67.5°	6781.7	2486.1	1016.0	819.9	784.6	846.3	901.4	923.5	908.0	980.8	989.6
70°	5056.0	2012.3	908.0	725.1	698.7	753.8	804.5	813.3	815.5	901.4	910.3
72.5°	3224.4	1564.8	764.8	619.3	599.5	641.4	678.8	714.1	729.5	811.1	808.9
75°	1798.5	1163.7	614.9	524.6	489.3	522.3	566.4	608.3	652.4	771.4	784.6
77.5°	1035.9	817.7	487.1	421.0	379.1	414.4	451.8	511.3	643.6	747.2	733.9
80°	584.1	531.2	368.1	308.6	282.1	308.6	337.2	449.6	506.9	551.0	557.6
82.5°	273.3	297.5	251.3	189.5	189.5	207.2	233.6	348.2	383.5	313.0	273.3
85°	99.2	134.4	123.4	97.0	86.0	83.8	145.5	198.4	123.4	110.2	94.8
87.5°	26.4	37.5	35.3	24.2	13.2	11.0	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)