

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: P643138

Luminaire Tested: GWS-SA6E-735-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-735-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40053.8 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

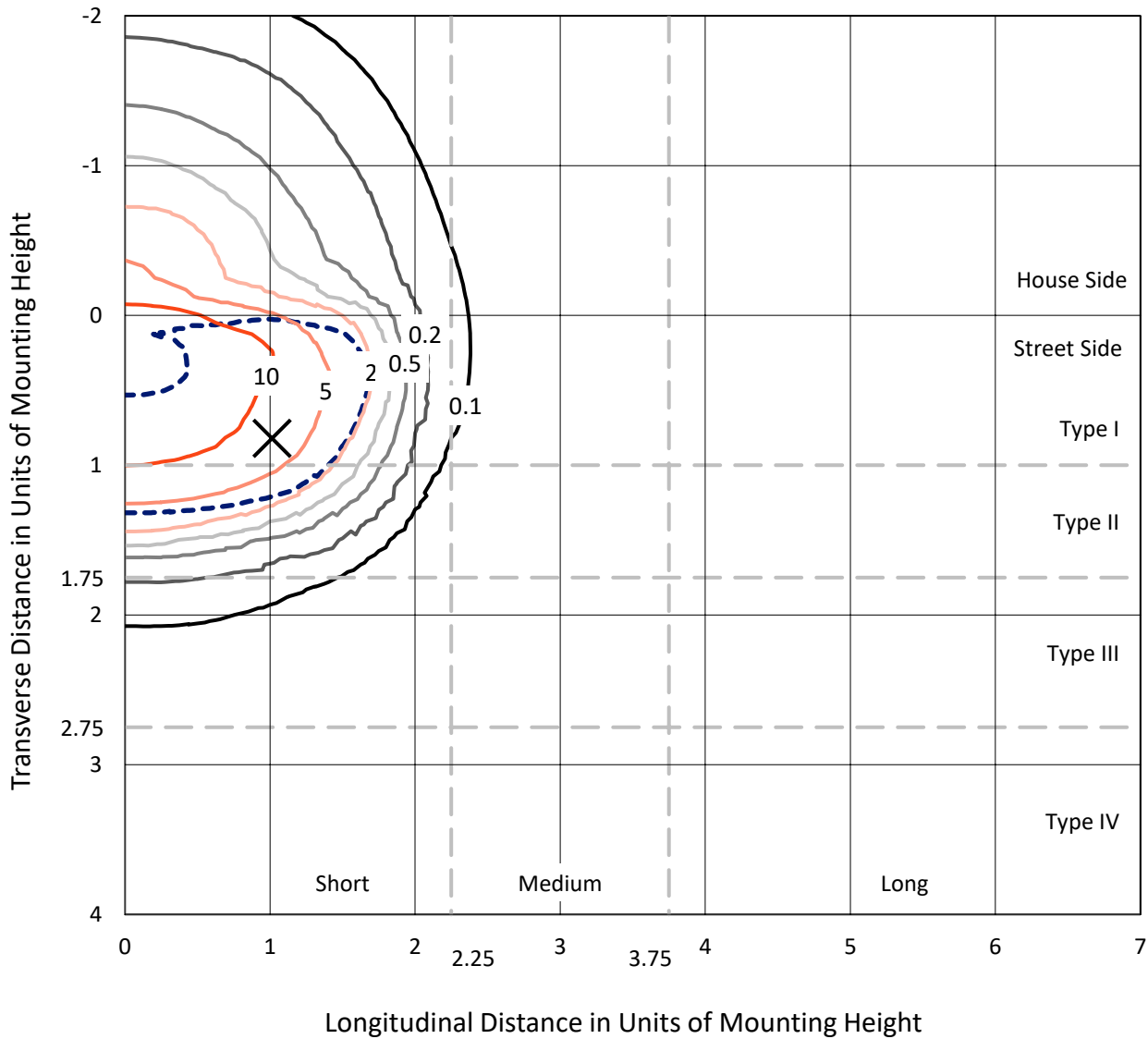
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

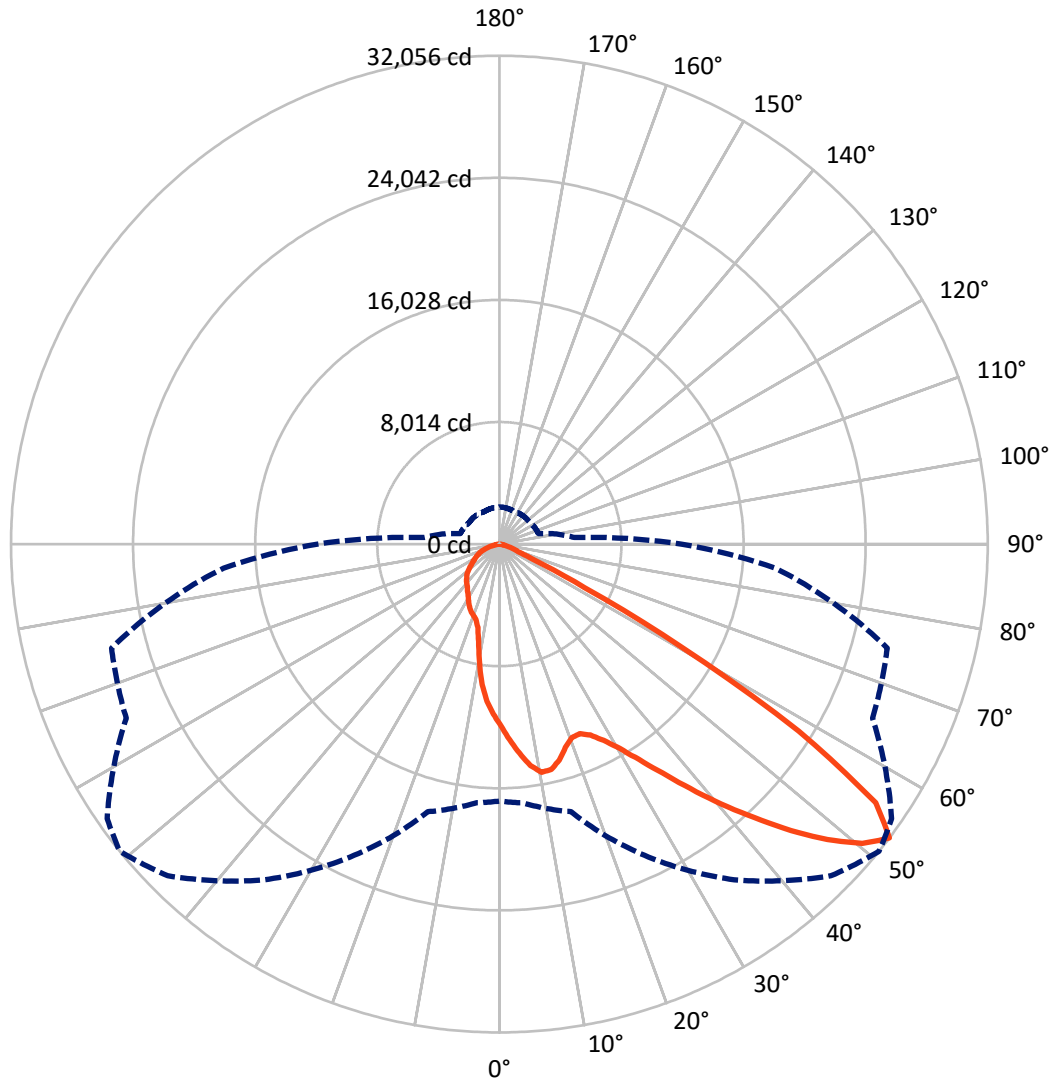
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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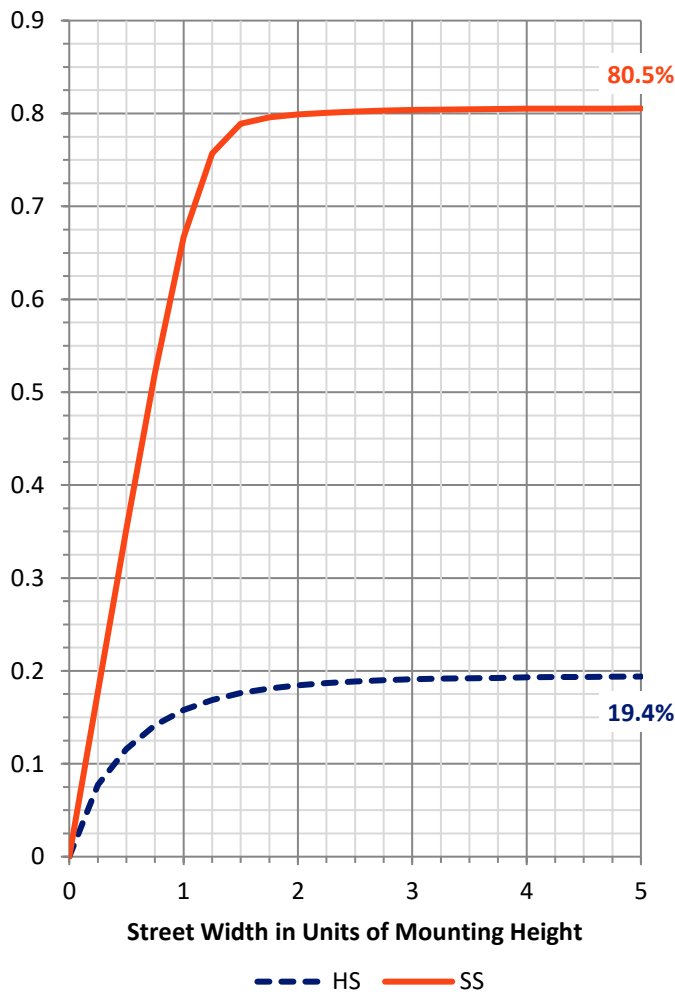
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7804.2	0.0	7804.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	32249.6	0.0	32249.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	40053.8	0.0	40053.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1112.9	2.8
10°-20°	2891.7	7.2
20°-30°	4701.6	11.7
30°-40°	7451.0	18.6
40°-50°	11237.7	28.1
50°-60°	9721.5	24.3
60°-70°	2203.9	5.5
70°-80°	649.9	1.6
80°-90°	83.7	0.2
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°	40053.8	100.0
0°-180°	40053.8	100.0

Coefficient of Utilization



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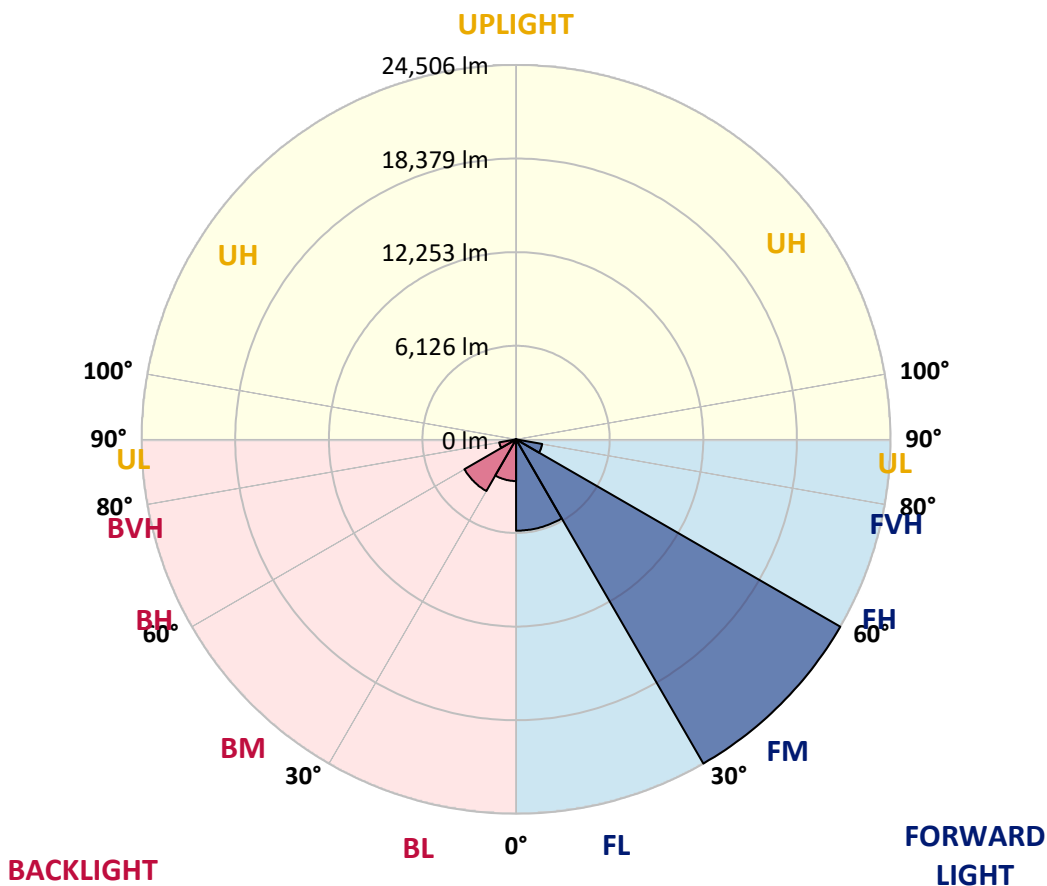
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5978.1	14.9			
FM (30°-60°)	24505.5	61.2			
FH (60°-80°)	1734.5	4.3			G1/1800
FVH (80°-90°)	31.5	0.1			G1/100
BL (0°-30°)	2728.0	6.8	B4/5000		
BM (30°-60°)	3904.7	9.7	B3/5000		
BH (60°-80°)	1119.3	2.8	B3/2500		G3/2500
BVH (80°-90°)	52.2	0.1			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°	51°	55°	65°	75°	85°
0°	11926.0	11926.0	11926.0	11926.0	11926.0	11926.0	11926.0	11926.0	11926.0	11926.0	11926.0
2.5°	13290.2	13366.1	13249.0	13204.7	13131.9	13005.3	12859.7	12818.6	12505.2	12299.5	12068.4
5°	14625.8	14667.0	14572.0	14477.1	14296.7	14071.9	13790.2	13730.1	13160.4	12688.8	12198.2
7.5°	14923.3	14907.5	14989.8	15043.6	15021.5	14932.8	14682.8	14565.7	13885.2	13138.2	12413.4
10°	13745.9	13657.3	13961.2	14322.0	14755.6	15255.7	15227.2	15217.7	14625.8	13742.8	12688.8
12.5°	12185.6	12141.2	12388.1	12840.7	13660.5	14768.3	15182.9	15505.7	15293.7	14318.8	12995.8
15°	11293.0	11277.2	11444.9	11770.9	12422.9	13821.9	14708.1	15347.5	15866.5	14936.0	13321.8
17.5°	11131.6	11141.1	11198.0	11384.8	11853.2	13005.3	14030.8	14923.3	16312.8	15613.3	13730.1
20°	11603.2	11666.5	11568.4	11596.8	11850.1	12711.0	13568.7	14496.1	16597.7	16293.8	14170.1
22.5°	12650.8	12628.7	12413.4	12286.8	12290.0	12891.4	13518.0	14296.7	16784.4	16955.3	14568.9
25°	13837.7	13812.4	13556.0	13274.3	13097.1	13382.0	13882.0	14508.7	16952.2	17559.9	14888.5
27.5°	15239.9	15160.7	14875.9	14515.0	14122.6	14246.0	14584.7	15081.6	17211.7	18154.9	15100.6
30°	16597.7	16689.5	16281.2	15853.9	15439.3	15363.3	15559.5	16009.0	17740.3	18851.2	15353.8
32.5°	18398.6	18366.9	17914.3	17357.3	16765.4	16708.4	16863.5	17275.0	18689.8	19813.4	15739.9
35°	20579.3	20585.7	19943.2	19189.9	18348.0	18196.0	18455.6	18854.4	20104.6	21117.4	16350.8
37.5°	22845.5	22836.0	22275.8	21421.2	20272.3	20057.1	20354.6	20652.1	21873.9	22893.0	17300.3
40°	24434.4	24497.7	24235.0	23785.6	22696.8	22171.4	22434.1	22639.8	23798.2	24982.0	18550.5
42.5°	25336.5	25431.4	25488.4	25757.4	25184.5	24624.3	24529.4	24637.0	25516.9	26922.2	19724.8
45°	25529.5	25656.1	26070.7	27067.7	27289.3	27131.1	26820.9	26561.3	26798.7	28299.0	20493.9
47.5°	24678.1	24899.7	25785.9	27529.9	28824.4	29321.3	28976.3	28580.7	27539.3	28653.5	20414.8
50°	21304.1	21563.7	23560.8	26586.7	29042.8	30853.2	30884.8	30299.3	27450.7	27631.1	19420.9
52.5°	16866.7	17043.9	18186.5	22538.5	26900.0	30789.9	32055.9	31429.2	27023.4	26352.4	18177.0
55°	10080.8	10365.6	11432.3	14869.5	20956.0	27289.3	29986.0	30289.8	26814.5	25279.5	17328.8
57.5°	3402.5	3541.7	4560.9	6567.5	12350.1	19981.1	23168.4	24402.8	24342.6	23640.0	15673.5
60°	1620.5	1652.2	1857.9	2490.9	4943.9	10441.6	13714.3	15138.6	16436.3	16566.0	9751.6
62.5°	1234.4	1253.4	1357.8	1493.9	1987.7	4399.5	6285.8	7374.6	7877.9	6760.6	3551.2
65°	1031.8	1047.6	1126.8	1212.2	1351.5	1905.4	2411.8	2782.1	2506.7	1952.9	1693.3
67.5°	860.9	873.6	933.7	1025.5	1120.4	1275.5	1338.8	1376.8	1443.3	1620.5	1557.2
70°	674.2	686.8	750.1	829.3	921.0	959.0	1019.2	1057.1	1190.1	1418.0	1411.6
72.5°	519.1	534.9	569.7	620.4	696.3	734.3	800.8	845.1	921.0	1104.6	1180.6
75°	379.8	389.3	421.0	436.8	446.3	436.8	503.2	553.9	655.2	724.8	743.8
77.5°	155.1	174.1	167.7	167.7	199.4	240.5	275.4	307.0	376.6	417.8	421.0
80°	63.3	69.6	82.3	91.8	110.8	142.4	164.6	177.2	208.9	234.2	253.2
82.5°	38.0	41.1	47.5	50.6	63.3	82.3	95.0	104.4	129.8	155.1	164.6
85°	19.0	19.0	22.2	25.3	31.7	38.0	44.3	50.6	66.5	82.3	91.8
87.5°	3.2	3.2	3.2	6.3	9.5	12.7	15.8	19.0	22.2	25.3	31.7
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°	11926.0	11926.0	11926.0	11926.0	11926.0	11926.0	11926.0	11926.0	11926.0	11926.0	11926.0
2.5°	11932.3	11761.4	11562.0	11403.8	11220.2	11084.1	10891.0	10770.8	10656.8	10561.9	10492.2
5°	11945.0	11657.0	11242.4	10875.2	10495.4	10134.6	9764.3	9463.6	9194.6	8969.8	8950.8
7.5°	12017.8	11603.2	10954.3	10311.8	9571.2	8855.9	8140.6	7558.2	7115.1	6884.0	6836.6
10°	12141.2	11596.8	10660.0	9634.5	8371.6	7219.5	6371.3	5928.2	5671.8	5580.0	5548.4
12.5°	12271.0	11581.0	10283.3	8678.6	6925.2	5915.5	5450.3	5396.5	5443.9	5450.3	5447.1
15°	12429.3	11571.5	9808.6	7558.2	5868.1	5311.0	5342.7	5456.6	5567.4	5592.7	5592.7
17.5°	12622.3	11549.4	9162.9	6463.1	5206.6	5193.9	5361.6	5513.6	5618.0	5637.0	5637.0
20°	12824.9	11492.4	8368.5	5570.5	4937.5	5121.1	5301.5	5418.6	5491.4	5516.7	5519.9
22.5°	12964.2	11340.5	7453.8	4909.0	4769.8	4981.8	5111.6	5231.9	5231.9	5168.6	5149.6
25°	12992.6	11014.5	6463.1	4456.4	4570.4	4766.6	4899.5	4829.9	4700.1	4649.5	4646.3
27.5°	12888.2	10539.7	5485.1	4133.6	4329.8	4526.1	4503.9	4402.6	4345.7	4295.0	4314.0
30°	12761.6	9970.0	4636.8	3867.7	4051.3	4244.4	4168.4	4133.6	4092.4	4035.5	4048.1
32.5°	12676.1	9333.8	3984.8	3662.0	3864.6	3896.2	3950.0	3946.9	3908.9	3801.3	3794.9
35°	12701.5	8691.3	3548.1	3494.2	3709.5	3696.8	3798.1	3779.1	3516.4	3367.6	3358.1
37.5°	12904.0	8074.1	3291.7	3361.3	3462.6	3541.7	3630.3	3402.5	3310.7	3215.7	3222.0
40°	13290.2	7501.2	3152.4	3288.5	3313.8	3430.9	3225.2	3222.0	3180.9	3095.4	3092.3
42.5°	13726.9	7017.0	3057.5	3253.7	3218.9	3241.0	3022.6	3048.0	3044.8	2991.0	2975.2
45°	13992.8	6570.7	2981.5	3123.9	3133.4	2911.9	2845.4	2873.9	2889.7	2861.2	2858.1
47.5°	13717.4	6058.0	2902.4	2924.5	3006.8	2763.1	2680.8	2684.0	2712.5	2715.6	2703.0
50°	12945.2	5485.1	2807.4	2753.6	2699.8	2608.0	2532.1	2516.2	2544.7	2573.2	2582.7
52.5°	11948.2	4937.5	2649.2	2566.9	2440.3	2440.3	2405.5	2354.8	2392.8	2430.8	2443.4
55°	11217.0	4532.4	2424.4	2332.7	2193.4	2240.9	2234.5	2190.2	2240.9	2269.4	2278.9
57.5°	9720.0	3643.0	2133.3	2104.8	1987.7	2044.6	2057.3	2000.3	1975.0	1981.3	1990.8
60°	5769.9	2351.7	1924.4	1921.2	1816.8	1883.2	1921.2	1864.2	1788.3	1797.8	1810.4
62.5°	2589.0	1797.8	1661.7	1649.0	1645.8	1731.3	1772.4	1718.6	1611.0	1620.5	1633.2
65°	1630.0	1554.1	1443.3	1443.3	1493.9	1566.7	1598.4	1554.1	1430.6	1414.8	1427.5
67.5°	1512.9	1446.4	1332.5	1310.3	1335.7	1395.8	1399.0	1313.5	1240.7	1228.1	1228.1
70°	1357.8	1307.2	1196.4	1152.1	1142.6	1139.4	1129.9	1107.8	1060.3	1047.6	1054.0
72.5°	1123.6	1088.8	1019.2	971.7	946.4	943.2	905.2	886.2	845.1	838.7	835.6
75°	743.8	753.3	753.3	747.0	724.8	715.3	674.2	655.2	607.7	588.7	585.5
77.5°	439.9	449.4	462.1	465.3	462.1	462.1	424.1	402.0	354.5	329.2	322.8
80°	269.0	275.4	281.7	291.2	278.5	269.0	234.2	212.1	189.9	174.1	170.9
82.5°	174.1	180.4	183.6	189.9	183.6	170.9	142.4	129.8	113.9	101.3	98.1
85°	98.1	101.3	107.6	107.6	98.1	88.6	72.8	63.3	53.8	47.5	47.5
87.5°	34.8	34.8	34.8	38.0	31.7	28.5	19.0	12.7	9.5	9.5	9.5
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)