

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: P638848

Luminaire Tested: GWS-SA4F-760-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638848
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-SA4F-760-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31141.7 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

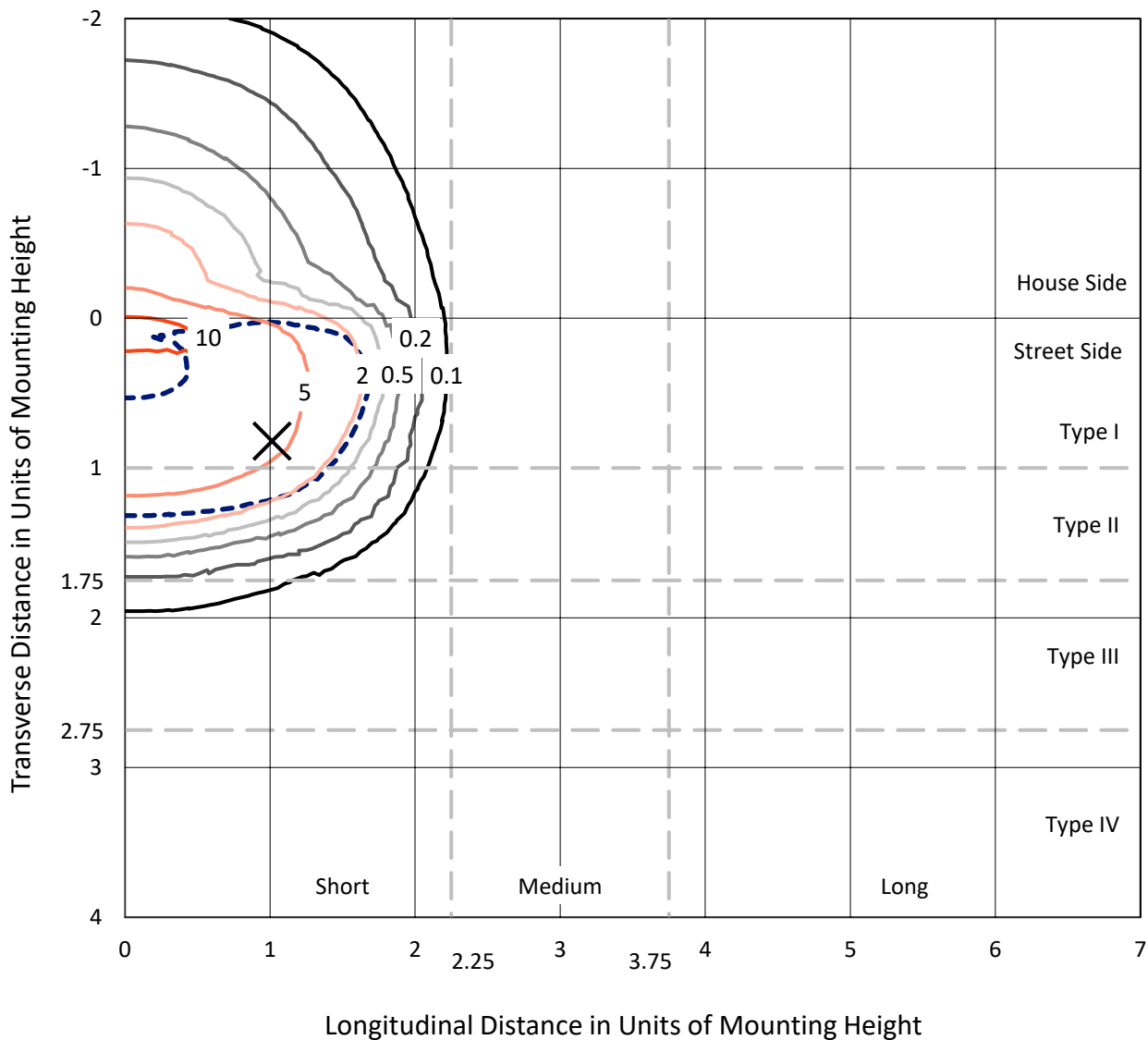
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

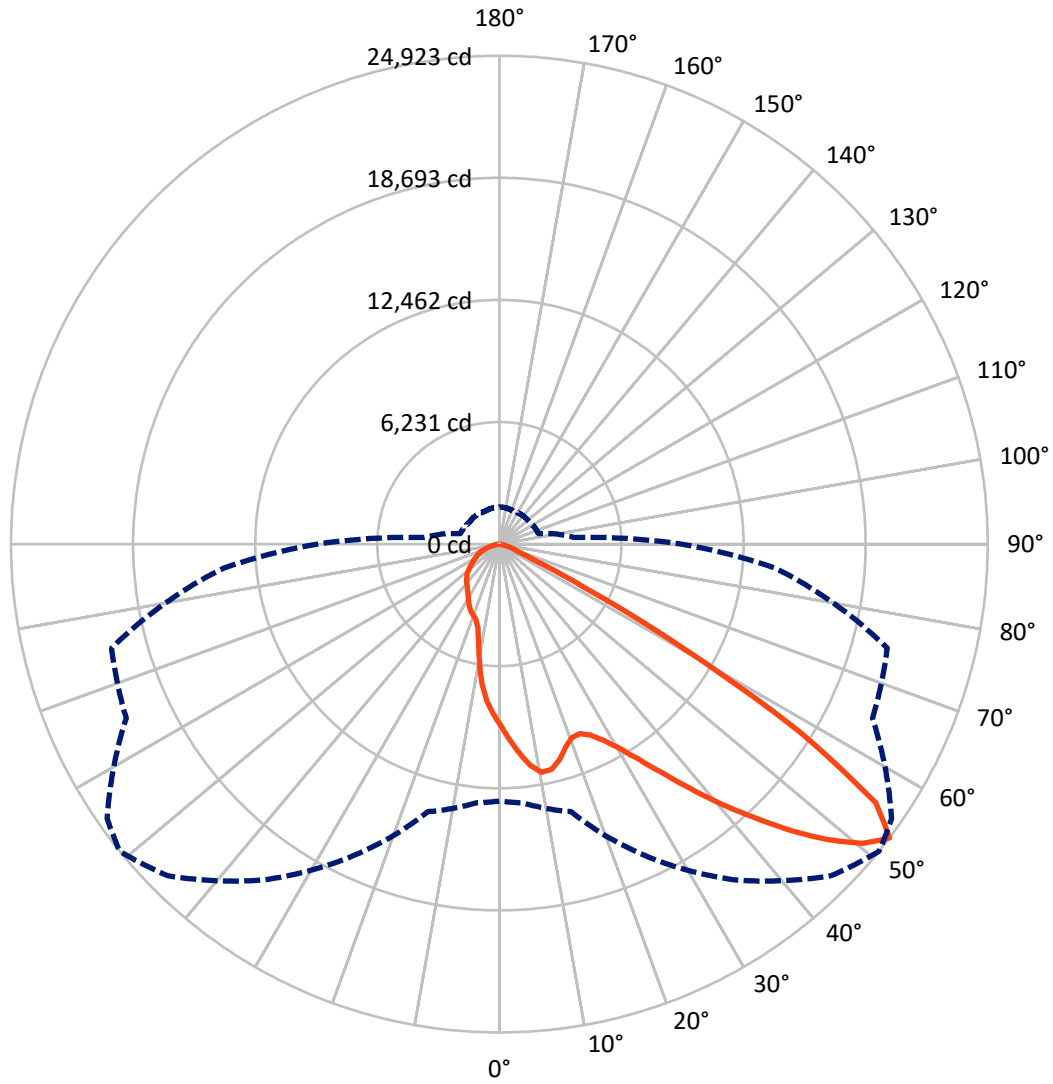
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.6 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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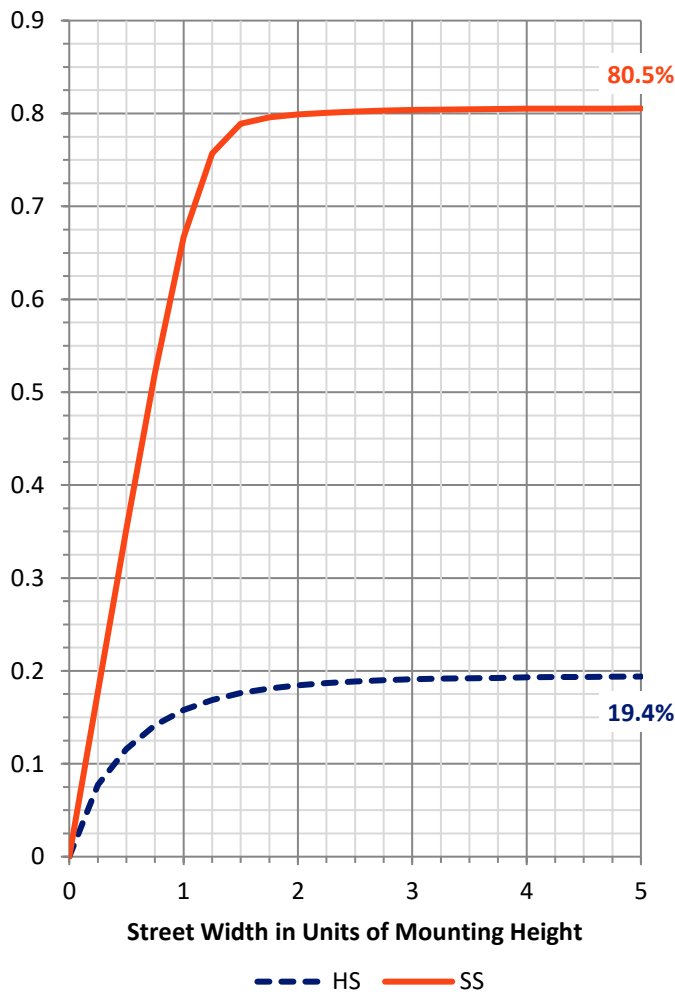
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6067.7	0.0	6067.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	25074.0	0.0	25074.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	31141.7	0.0	31141.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	865.2	2.8
10°-20°	2248.3	7.2
20°-30°	3655.5	11.7
30°-40°	5793.1	18.6
40°-50°	8737.3	28.1
50°-60°	7558.4	24.3
60°-70°	1713.6	5.5
70°-80°	505.3	1.6
80°-90°	65.1	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°	31141.7	100.0
0°-180°	31141.7	100.0

Coefficient of Utilization



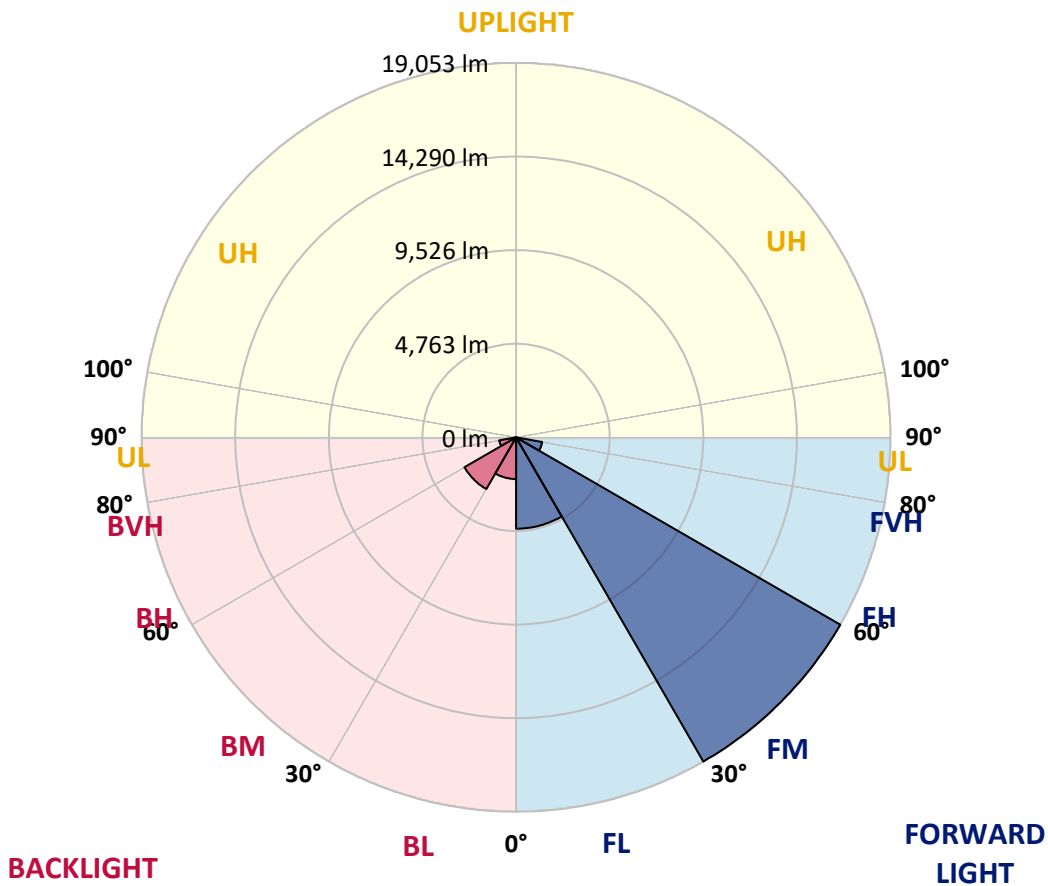
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4648.0	14.9			
FM (30°-60°)	19052.9	61.2			
FH (60°-80°)	1348.5	4.3			G1/1800
FVH (80°-90°)	24.5	0.1			G1/100
BL (0°-30°)	2121.0	6.8	B3/2500		
BM (30°-60°)	3035.9	9.7	B3/5000		
BH (60°-80°)	870.3	2.8	B2/1000		G2/1000
BVH (80°-90°)	40.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	9272.4	9272.4	9272.4	9272.4	9272.4	9272.4	9272.4	9272.4	9272.4	9272.4	9272.4
2.5°	10333.1	10392.1	10301.1	10266.6	10210.0	10111.6	9998.4	9966.4	9722.8	9562.8	9383.2
5°	11371.5	11403.5	11329.7	11255.9	11115.6	10940.9	10721.9	10675.1	10232.2	9865.5	9484.1
7.5°	11602.9	11590.5	11654.5	11696.4	11679.1	11610.2	11415.8	11324.8	10795.7	10214.9	9651.4
10°	10687.4	10618.5	10854.8	11135.3	11472.4	11861.2	11839.1	11831.7	11371.5	10685.0	9865.5
12.5°	9474.2	9439.8	9631.7	9983.6	10621.0	11482.3	11804.6	12055.6	11890.8	11132.8	10104.2
15°	8780.3	8768.0	8898.4	9151.9	9658.8	10746.5	11435.5	11932.6	12336.2	11612.7	10357.7
17.5°	8654.8	8662.1	8706.4	8851.6	9215.8	10111.6	10908.9	11602.9	12683.2	12139.3	10675.1
20°	9021.4	9070.6	8994.4	9016.5	9213.4	9882.7	10549.6	11270.6	12904.6	12668.4	11017.2
22.5°	9836.0	9818.7	9651.4	9553.0	9555.4	10023.0	10510.2	11115.6	13049.8	13182.7	11327.2
25°	10758.8	10739.1	10539.8	10320.8	10182.9	10404.4	10793.2	11280.5	13180.2	13652.7	11575.8
27.5°	11848.9	11787.4	11565.9	11285.4	10980.3	11076.2	11339.5	11725.9	13382.0	14115.4	11740.7
30°	12904.6	12976.0	12658.6	12326.3	12004.0	11944.9	12097.5	12446.9	13793.0	14656.8	11937.5
32.5°	14304.9	14280.2	13928.3	13495.2	13035.1	12990.8	13111.3	13431.3	14531.2	15404.8	12237.7
35°	16000.4	16005.3	15505.7	14920.1	14265.5	14147.4	14349.1	14659.2	15631.2	16418.7	12712.7
37.5°	17762.3	17754.9	17319.4	16655.0	15761.7	15594.3	15825.6	16057.0	17006.9	17799.2	13450.9
40°	18997.7	19046.9	18842.6	18493.2	17646.7	17238.2	17442.4	17602.4	18503.0	19423.4	14423.0
42.5°	19699.0	19772.8	19817.1	20026.3	19580.9	19145.3	19071.5	19155.2	19839.3	20931.9	15335.9
45°	19849.1	19947.6	20269.9	21045.1	21217.3	21094.3	20853.1	20651.4	20835.9	22002.4	15933.9
47.5°	19187.2	19359.4	20048.4	21404.4	22410.9	22797.2	22529.0	22221.4	21411.8	22278.0	15872.4
50°	16563.9	16765.7	18318.5	20671.0	22580.7	23988.2	24012.9	23557.6	21342.8	21483.1	15099.7
52.5°	13113.8	13251.6	14140.0	17523.6	20914.7	23939.0	24923.4	24436.1	21010.6	20488.9	14132.6
55°	7837.8	8059.2	8888.5	11561.0	16293.2	21217.3	23314.0	23550.2	20848.2	19654.7	13473.1
57.5°	2645.4	2753.7	3546.1	5106.2	9602.2	15535.3	18013.3	18973.1	18926.3	18380.0	12186.1
60°	1259.9	1284.6	1444.5	1936.7	3843.8	8118.3	10662.8	11770.2	12779.1	12880.0	7581.8
62.5°	959.7	974.5	1055.7	1161.5	1545.4	3420.6	4887.2	5733.8	6125.0	5256.4	2761.1
65°	802.2	814.5	876.1	942.5	1050.8	1481.4	1875.2	2163.1	1949.0	1518.3	1316.5
67.5°	669.3	679.2	725.9	797.3	871.1	991.7	1040.9	1070.5	1122.1	1259.9	1210.7
70°	524.2	534.0	583.2	644.7	716.1	745.6	792.4	821.9	925.3	1102.5	1097.5
72.5°	403.6	415.9	443.0	482.3	541.4	570.9	622.6	657.0	716.1	858.8	917.9
75°	295.3	302.7	327.3	339.6	347.0	339.6	391.3	430.6	509.4	563.5	578.3
77.5°	120.6	135.3	130.4	130.4	155.0	187.0	214.1	238.7	292.8	324.8	327.3
80°	49.2	54.1	64.0	71.4	86.1	110.7	128.0	137.8	162.4	182.1	196.9
82.5°	29.5	32.0	36.9	39.4	49.2	64.0	73.8	81.2	100.9	120.6	128.0
85°	14.8	14.8	17.2	19.7	24.6	29.5	34.5	39.4	51.7	64.0	71.4
87.5°	2.5	2.5	2.5	4.9	7.4	9.8	12.3	14.8	17.2	19.7	24.6
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°	9272.4	9272.4	9272.4	9272.4	9272.4	9272.4	9272.4	9272.4	9272.4	9272.4	9272.4
2.5°	9277.4	9144.5	8989.4	8866.4	8723.7	8617.9	8467.7	8374.2	8285.6	8211.8	8157.7
5°	9287.2	9063.3	8740.9	8455.4	8160.1	7879.6	7591.7	7357.9	7148.7	6974.0	6959.3
7.5°	9343.8	9021.4	8517.0	8017.4	7441.6	6885.4	6329.3	5876.5	5532.0	5352.3	5315.4
10°	9439.8	9016.5	8288.1	7490.8	6508.9	5613.2	4953.7	4609.1	4409.8	4338.5	4313.8
12.5°	9540.7	9004.2	7995.3	6747.6	5384.3	4599.3	4237.6	4195.7	4232.6	4237.6	4235.1
15°	9663.7	8996.8	7626.1	5876.5	4562.4	4129.3	4153.9	4242.5	4328.6	4348.3	4348.3
17.5°	9813.8	8979.6	7124.1	5025.0	4048.1	4038.2	4168.7	4286.8	4368.0	4382.8	4382.8
20°	9971.3	8935.3	6506.5	4331.1	3838.9	3981.6	4121.9	4213.0	4269.6	4289.2	4291.7
22.5°	10079.6	8817.2	5795.3	3816.8	3708.5	3873.4	3974.3	4067.8	4067.8	4018.5	4003.8
25°	10101.7	8563.7	5025.0	3464.9	3553.5	3706.0	3809.4	3755.2	3654.3	3615.0	3612.5
27.5°	10020.5	8194.6	4264.6	3213.9	3366.4	3519.0	3501.8	3423.0	3378.7	3339.4	3354.1
30°	9922.1	7751.6	3605.1	3007.1	3149.9	3300.0	3240.9	3213.9	3181.9	3137.6	3147.4
32.5°	9855.7	7257.0	3098.2	2847.2	3004.7	3029.3	3071.1	3068.7	3039.1	2955.5	2950.5
35°	9875.3	6757.5	2758.6	2716.8	2884.1	2874.3	2953.0	2938.2	2734.0	2618.3	2610.9
37.5°	10032.8	6277.6	2559.3	2613.4	2692.2	2753.7	2822.6	2645.4	2574.0	2500.2	2505.1
40°	10333.1	5832.2	2451.0	2556.8	2576.5	2667.5	2507.6	2505.1	2473.1	2406.7	2404.2
42.5°	10672.7	5455.7	2377.2	2529.7	2502.7	2519.9	2350.1	2369.8	2367.3	2325.5	2313.2
45°	10879.4	5108.7	2318.1	2428.8	2436.2	2264.0	2212.3	2234.4	2246.7	2224.6	2222.1
47.5°	10665.3	4710.0	2256.6	2273.8	2337.8	2148.3	2084.3	2086.8	2108.9	2111.4	2101.6
50°	10064.8	4264.6	2182.8	2140.9	2099.1	2027.7	1968.7	1956.4	1978.5	2000.7	2008.0
52.5°	9289.7	3838.9	2059.7	1995.7	1897.3	1897.3	1870.2	1830.9	1860.4	1889.9	1899.8
55°	8721.2	3523.9	1885.0	1813.6	1705.4	1742.3	1737.4	1702.9	1742.3	1764.4	1771.8
57.5°	7557.2	2832.4	1658.6	1636.5	1545.4	1589.7	1599.5	1555.2	1535.6	1540.5	1547.9
60°	4486.1	1828.4	1496.2	1493.7	1412.5	1464.2	1493.7	1449.4	1390.4	1397.8	1407.6
62.5°	2013.0	1397.8	1291.9	1282.1	1279.6	1346.1	1378.1	1336.2	1252.6	1259.9	1269.8
65°	1267.3	1208.3	1122.1	1122.1	1161.5	1218.1	1242.7	1208.3	1112.3	1100.0	1109.8
67.5°	1176.3	1124.6	1036.0	1018.8	1038.5	1085.2	1087.7	1021.2	964.6	954.8	954.8
70°	1055.7	1016.3	930.2	895.7	888.4	885.9	878.5	861.3	824.4	814.5	819.5
72.5°	873.6	846.5	792.4	755.5	735.8	733.3	703.8	689.0	657.0	652.1	649.7
75°	578.3	585.7	585.7	580.8	563.5	556.1	524.2	509.4	472.5	457.7	455.3
77.5°	342.1	349.4	359.3	361.7	359.3	359.3	329.8	312.5	275.6	255.9	251.0
80°	209.2	214.1	219.0	226.4	216.6	209.2	182.1	164.9	147.7	135.3	132.9
82.5°	135.3	140.3	142.7	147.7	142.7	132.9	110.7	100.9	88.6	78.7	76.3
85°	76.3	78.7	83.7	83.7	76.3	68.9	56.6	49.2	41.8	36.9	36.9
87.5°	27.1	27.1	27.1	29.5	24.6	22.1	14.8	9.8	7.4	7.4	7.4
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)