

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: P639838

Luminaire Tested: GWS-SA5C-760-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639838
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-SA5C-760-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21794.9 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

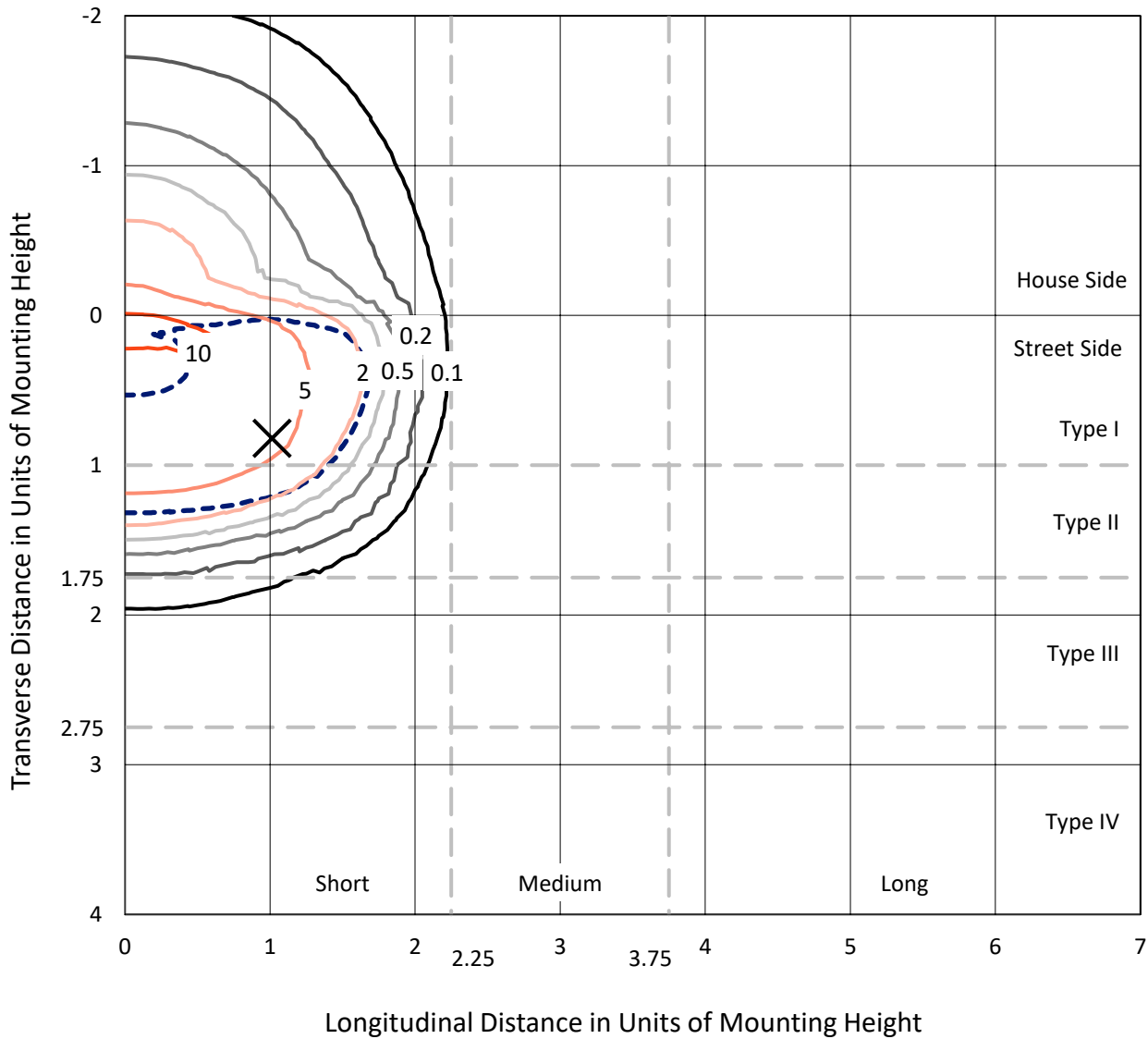
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

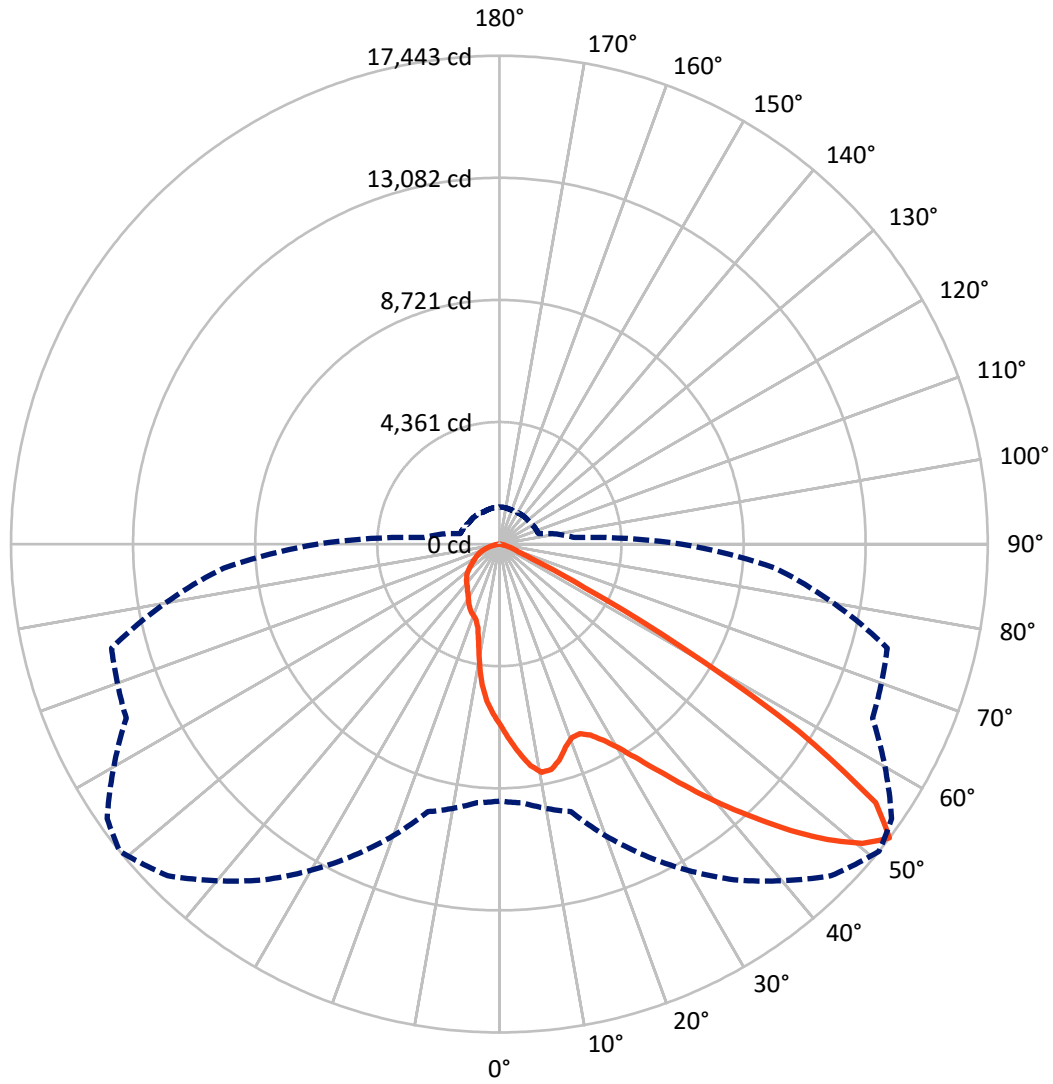
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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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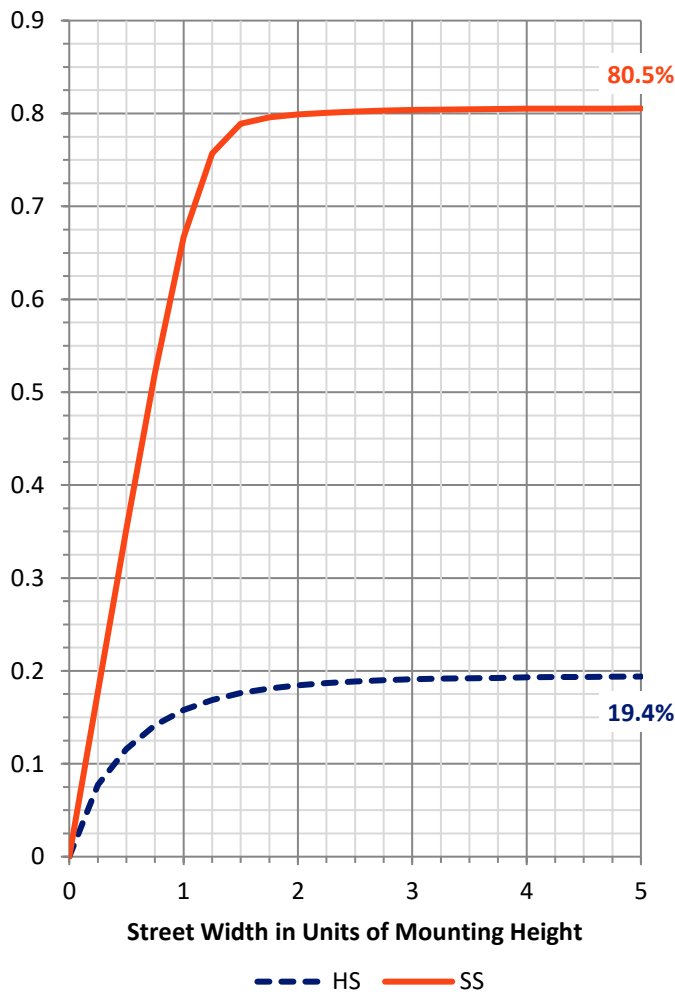
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4246.6	0.0	4246.6
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	17548.3	0.0	17548.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	21794.9	0.0	21794.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.6	2.8
10°-20°	1573.5	7.2
20°-30°	2558.3	11.7
30°-40°	4054.4	18.6
40°-50°	6114.9	28.1
50°-60°	5289.9	24.3
60°-70°	1199.3	5.5
70°-80°	353.6	1.6
80°-90°	45.5	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°	21794.9	100.0
0°-180°	21794.9	100.0

Coefficient of Utilization



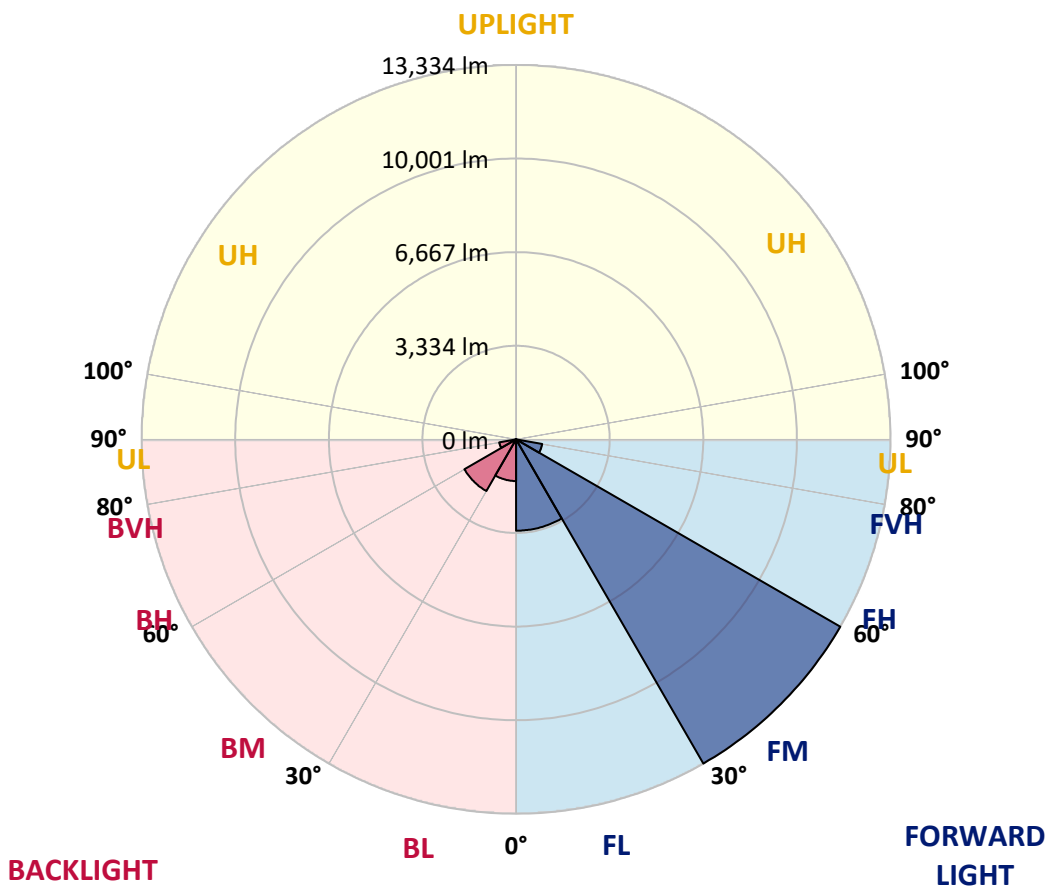
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3252.9	14.9			
FM (30°-60°)	13334.4	61.2			
FH (60°-80°)	943.8	4.3			G1/1800
FVH (80°-90°)	17.2	0.1			G1/100
BL (0°-30°)	1484.4	6.8	B3/2500		
BM (30°-60°)	2124.7	9.7	B2/2500		
BH (60°-80°)	609.1	2.8	B2/1000		G2/1000
BVH (80°-90°)	28.4	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°	6489.4	6489.4	6489.4	6489.4	6489.4	6489.4	6489.4	6489.4	6489.4	6489.4	6489.4
2.5°	7231.7	7273.1	7209.3	7185.2	7145.6	7076.7	6997.5	6975.1	6804.6	6692.7	6566.9
5°	7958.5	7980.9	7929.2	7877.6	7779.4	7657.1	7503.8	7471.1	7161.1	6904.5	6637.5
7.5°	8120.4	8111.8	8156.6	8185.8	8173.8	8125.6	7989.5	7925.8	7555.5	7149.0	6754.7
10°	7479.7	7431.5	7596.8	7793.2	8029.1	8301.2	8285.7	8280.6	7958.5	7478.0	6904.5
12.5°	6630.7	6606.5	6740.9	6987.2	7433.2	8036.0	8261.6	8437.3	8321.9	7791.4	7071.5
15°	6145.0	6136.4	6227.6	6405.0	6759.8	7521.1	8003.3	8351.2	8633.6	8127.3	7248.9
17.5°	6057.1	6062.3	6093.3	6194.9	6449.8	7076.7	7634.7	8120.4	8876.5	8495.8	7471.1
20°	6313.8	6348.2	6294.8	6310.3	6448.1	6916.5	7383.3	7887.9	9031.5	8866.1	7710.5
22.5°	6883.8	6871.8	6754.7	6685.8	6687.5	7014.7	7355.7	7779.4	9133.1	9226.1	7927.5
25°	7529.7	7515.9	7376.4	7223.1	7126.7	7281.7	7553.8	7894.8	9224.4	9555.0	8101.5
27.5°	8292.6	8249.6	8094.6	7898.2	7684.7	7751.8	7936.1	8206.5	9365.6	9878.8	8216.8
30°	9031.5	9081.4	8859.2	8626.7	8401.1	8359.8	8466.6	8711.1	9653.2	10257.7	8354.6
32.5°	10011.4	9994.2	9747.9	9444.8	9122.7	9091.7	9176.1	9400.0	10169.9	10781.3	8564.7
35°	11198.1	11201.5	10851.9	10442.0	9983.9	9901.2	10042.4	10259.4	10939.7	11490.8	8897.1
37.5°	12431.2	12426.0	12121.2	11656.2	11031.0	10913.9	11075.8	11237.7	11902.5	12457.0	9413.8
40°	13295.8	13330.2	13187.3	12942.7	12350.2	12064.3	12207.3	12319.2	12949.6	13593.7	10094.1
42.5°	13786.6	13838.3	13869.3	14015.7	13703.9	13399.1	13347.4	13406.0	13884.8	14649.4	10733.0
45°	13891.6	13960.5	14186.2	14728.7	14849.2	14763.1	14594.3	14453.1	14582.3	15398.6	11151.6
47.5°	13428.4	13548.9	14031.2	14980.1	15684.5	15954.9	15767.2	15551.9	14985.3	15591.5	11108.5
50°	11592.4	11733.7	12820.4	14466.9	15803.3	16788.5	16805.7	16487.1	14937.1	15035.2	10567.7
52.5°	9177.9	9274.3	9896.0	12264.1	14637.4	16754.0	17442.9	17101.9	14704.6	14339.4	9890.9
55°	5485.4	5640.4	6220.8	8091.1	11403.0	14849.2	16316.6	16481.9	14590.9	13755.6	9429.3
57.5°	1851.4	1927.2	2481.8	3573.7	6720.2	10872.5	12606.9	13278.5	13245.8	12863.5	8528.6
60°	881.8	899.0	1011.0	1355.4	2690.2	5681.7	7462.5	8237.5	8943.6	9014.2	5306.2
62.5°	671.7	682.0	738.8	812.9	1081.6	2393.9	3420.4	4012.8	4286.7	3678.7	1932.4
65°	561.5	570.1	613.1	659.6	735.4	1036.8	1312.4	1513.9	1364.0	1062.6	921.4
67.5°	468.5	475.3	508.1	558.0	609.7	694.1	728.5	749.2	785.3	881.8	847.3
70°	366.8	373.7	408.2	451.2	501.2	521.8	554.6	575.2	647.6	771.6	768.1
72.5°	282.4	291.1	310.0	337.6	378.9	399.6	435.7	459.8	501.2	601.1	642.4
75°	206.7	211.8	229.1	237.7	242.8	237.7	273.8	301.4	356.5	394.4	404.7
77.5°	84.4	94.7	91.3	91.3	108.5	130.9	149.8	167.1	204.9	227.3	229.1
80°	34.4	37.9	44.8	49.9	60.3	77.5	89.6	96.4	113.7	127.4	137.8
82.5°	20.7	22.4	25.8	27.6	34.4	44.8	51.7	56.8	70.6	84.4	89.6
85°	10.3	10.3	12.1	13.8	17.2	20.7	24.1	27.6	36.2	44.8	49.9
87.5°	1.7	1.7	1.7	3.4	5.2	6.9	8.6	10.3	12.1	13.8	17.2
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°	6489.4	6489.4	6489.4	6489.4	6489.4	6489.4	6489.4	6489.4	6489.4	6489.4	6489.4
2.5°	6492.9	6399.9	6291.4	6205.3	6105.4	6031.3	5926.3	5860.8	5798.8	5747.1	5709.3
5°	6499.8	6343.0	6117.4	5917.6	5711.0	5514.6	5313.1	5149.5	5003.1	4880.8	4870.5
7.5°	6539.4	6313.8	5960.7	5611.1	5208.1	4818.8	4429.6	4112.7	3871.6	3745.9	3720.1
10°	6606.5	6310.3	5800.5	5242.5	4555.3	3928.4	3466.9	3225.8	3086.3	3036.3	3019.1
12.5°	6677.2	6301.7	5595.6	4722.4	3768.3	3218.9	2965.7	2936.4	2962.3	2965.7	2964.0
15°	6763.3	6296.5	5337.2	4112.7	3193.0	2889.9	2907.2	2969.2	3029.4	3043.2	3043.2
17.5°	6868.3	6284.5	4985.9	3516.8	2833.1	2826.2	2917.5	3000.2	3057.0	3067.3	3067.3
20°	6978.5	6253.5	4553.6	3031.2	2686.7	2786.6	2884.8	2948.5	2988.1	3001.9	3003.6
22.5°	7054.3	6170.8	4055.9	2671.2	2595.4	2710.8	2781.4	2846.9	2846.9	2812.4	2802.1
25°	7069.8	5993.4	3516.8	2424.9	2486.9	2593.7	2666.0	2628.1	2557.5	2530.0	2528.3
27.5°	7013.0	5735.1	2984.7	2249.3	2356.0	2462.8	2450.8	2395.6	2364.6	2337.1	2347.4
30°	6944.1	5425.1	2523.1	2104.6	2204.5	2309.5	2268.2	2249.3	2226.9	2195.9	2202.8
32.5°	6897.6	5078.9	2168.3	1992.6	2102.9	2120.1	2149.4	2147.6	2127.0	2068.4	2065.0
35°	6911.4	4729.3	1930.6	1901.4	2018.5	2011.6	2066.7	2056.4	1913.4	1832.5	1827.3
37.5°	7021.6	4393.5	1791.1	1829.0	1884.1	1927.2	1975.4	1851.4	1801.5	1749.8	1753.2
40°	7231.7	4081.7	1715.4	1789.4	1803.2	1866.9	1755.0	1753.2	1730.9	1684.4	1682.6
42.5°	7469.4	3818.2	1663.7	1770.5	1751.5	1763.6	1644.7	1658.5	1656.8	1627.5	1618.9
45°	7614.1	3575.4	1622.4	1699.9	1705.0	1584.5	1548.3	1563.8	1572.4	1556.9	1555.2
47.5°	7464.2	3296.4	1579.3	1591.4	1636.1	1503.5	1458.7	1460.5	1476.0	1477.7	1470.8
50°	7044.0	2984.7	1527.6	1498.4	1469.1	1419.1	1377.8	1369.2	1384.7	1400.2	1405.4
52.5°	6501.5	2686.7	1441.5	1396.7	1327.9	1327.9	1308.9	1281.4	1302.0	1322.7	1329.6
55°	6103.6	2466.3	1319.2	1269.3	1193.5	1219.4	1215.9	1191.8	1219.4	1234.9	1240.0
57.5°	5289.0	1982.3	1160.8	1145.3	1081.6	1112.6	1119.5	1088.5	1074.7	1078.1	1083.3
60°	3139.7	1279.6	1047.1	1045.4	988.6	1024.7	1045.4	1014.4	973.1	978.2	985.1
62.5°	1408.8	978.2	904.2	897.3	895.6	942.1	964.5	935.2	876.6	881.8	888.7
65°	887.0	845.6	785.3	785.3	812.9	852.5	869.7	845.6	778.5	769.8	776.7
67.5°	823.2	787.1	725.1	713.0	726.8	759.5	761.2	714.7	675.1	668.2	668.2
70°	738.8	711.3	651.0	626.9	621.7	620.0	614.8	602.8	577.0	570.1	573.5
72.5°	611.4	592.5	554.6	528.7	515.0	513.2	492.6	482.2	459.8	456.4	454.7
75°	404.7	409.9	409.9	406.5	394.4	389.2	366.8	356.5	330.7	320.3	318.6
77.5°	239.4	244.6	251.4	253.2	251.4	251.4	230.8	218.7	192.9	179.1	175.7
80°	146.4	149.8	153.3	158.4	151.6	146.4	127.4	115.4	103.3	94.7	93.0
82.5°	94.7	98.2	99.9	103.3	99.9	93.0	77.5	70.6	62.0	55.1	53.4
85°	53.4	55.1	58.6	58.6	53.4	48.2	39.6	34.4	29.3	25.8	25.8
87.5°	18.9	18.9	18.9	20.7	17.2	15.5	10.3	6.9	5.2	5.2	5.2
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)