

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: P639342

Luminaire Tested: GWS-SA5B-760-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639342
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-760-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13491.7 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

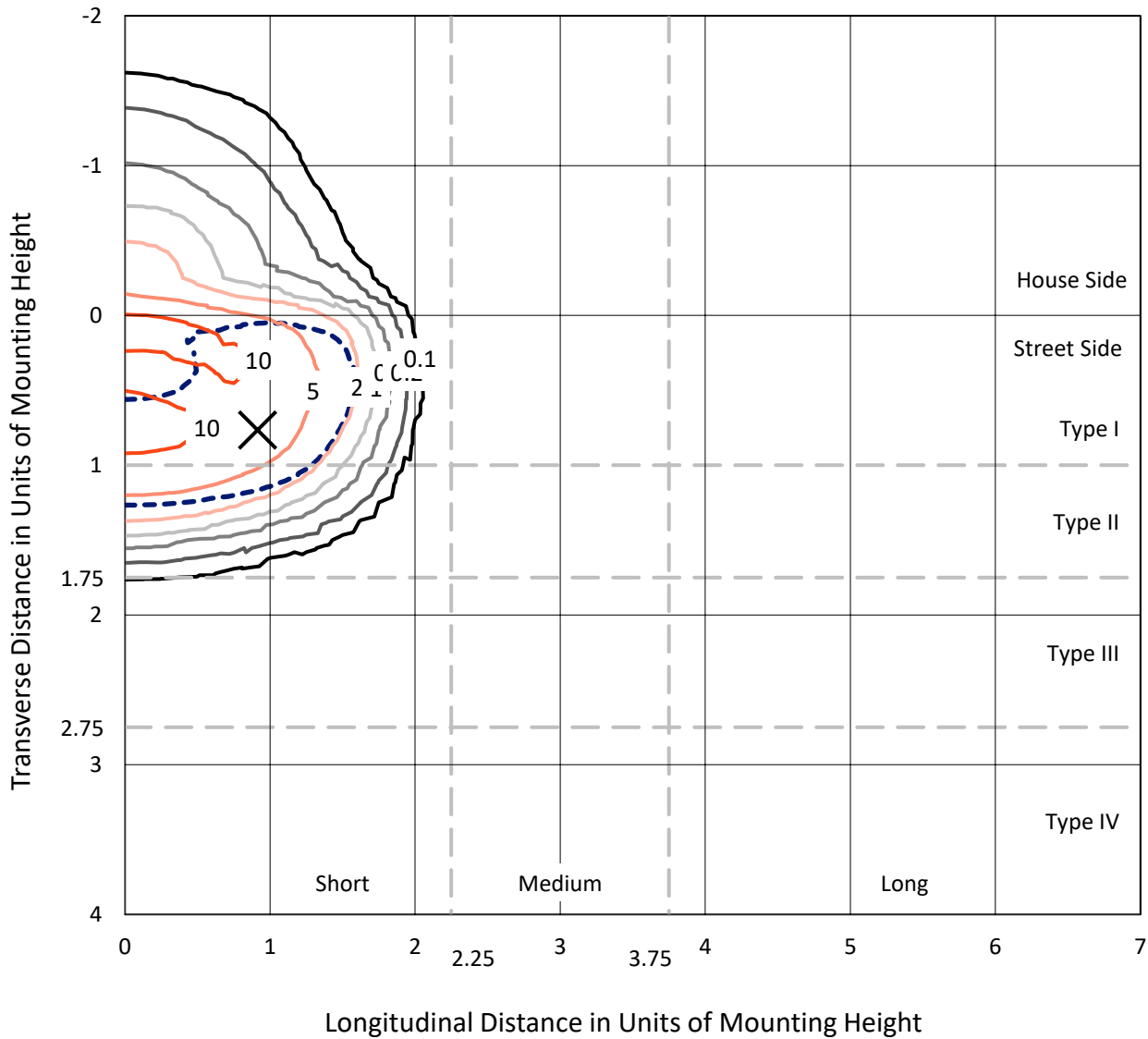
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

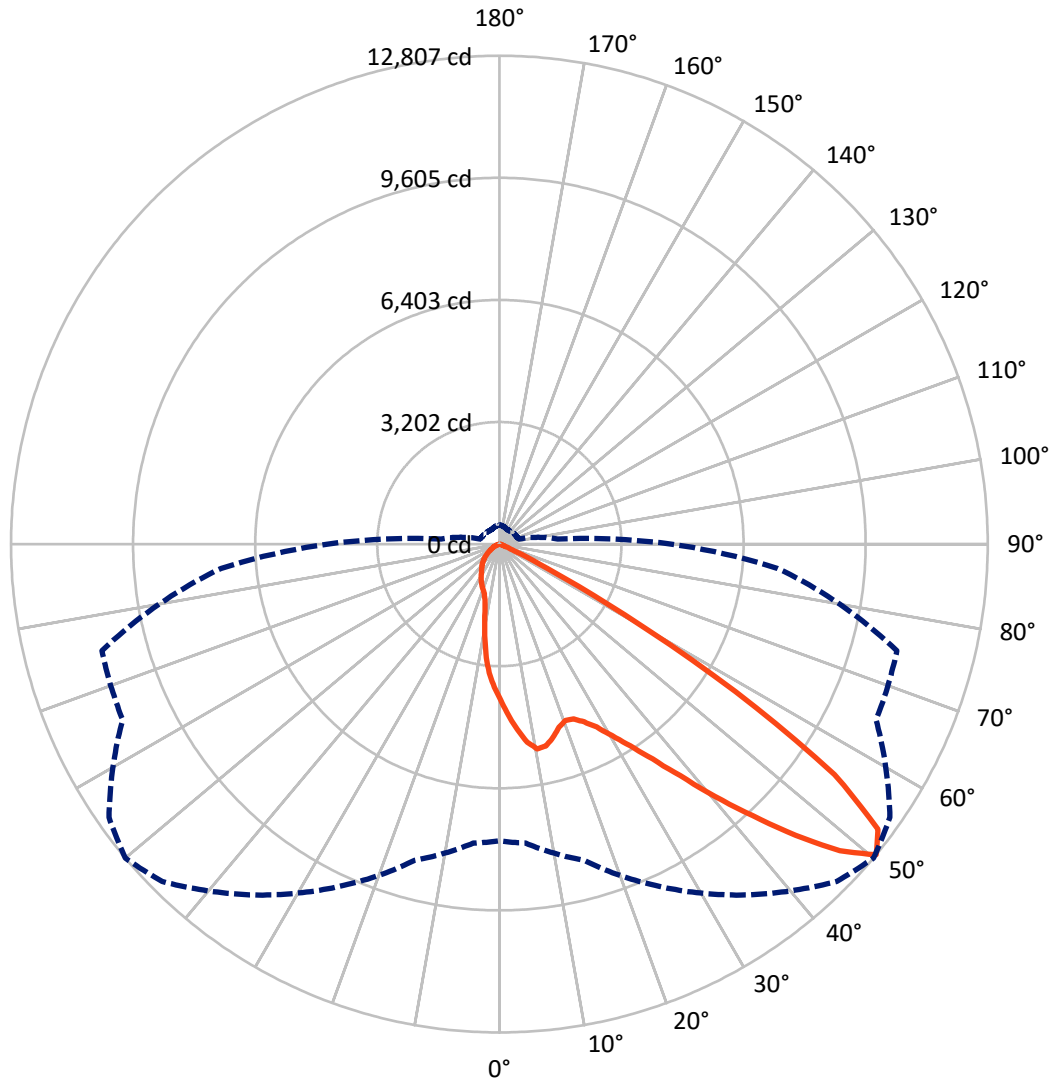
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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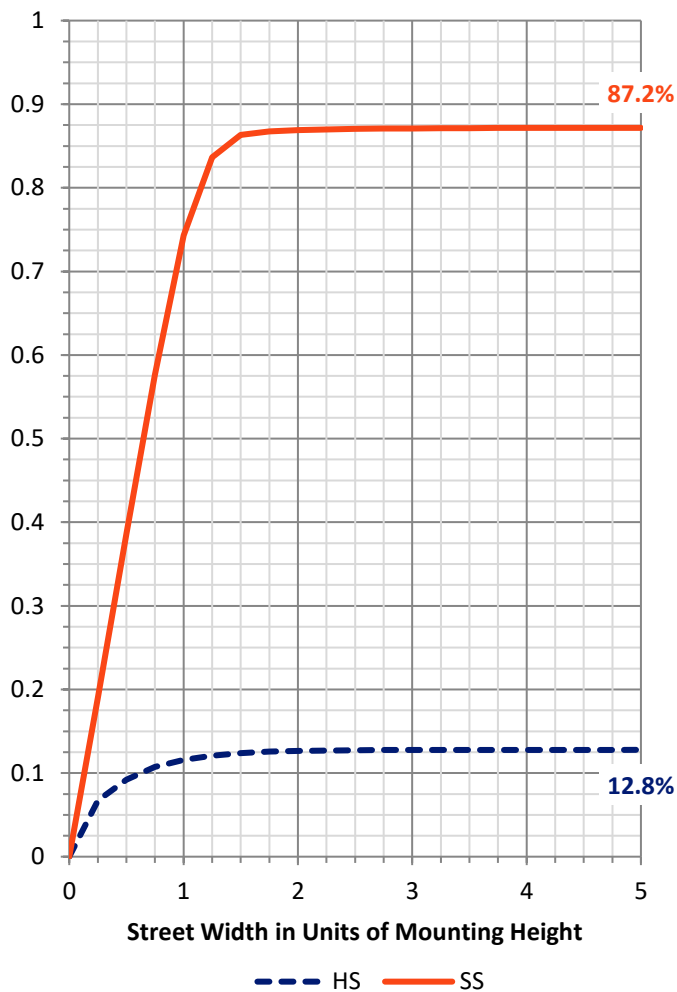
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1733.5	0.0	1733.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	11758.2	0.0	11758.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	13491.7	0.0	13491.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.2	2.8
10°-20°	978.3	7.3
20°-30°	1614.5	12.0
30°-40°	2664.3	19.7
40°-50°	4215.6	31.2
50°-60°	3191.7	23.7
60°-70°	399.5	3.0
70°-80°	45.2	0.3
80°-90°	3.4	0.0
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°	13491.7	100.0
0°-180°	13491.7	100.0

Coefficient of Utilization



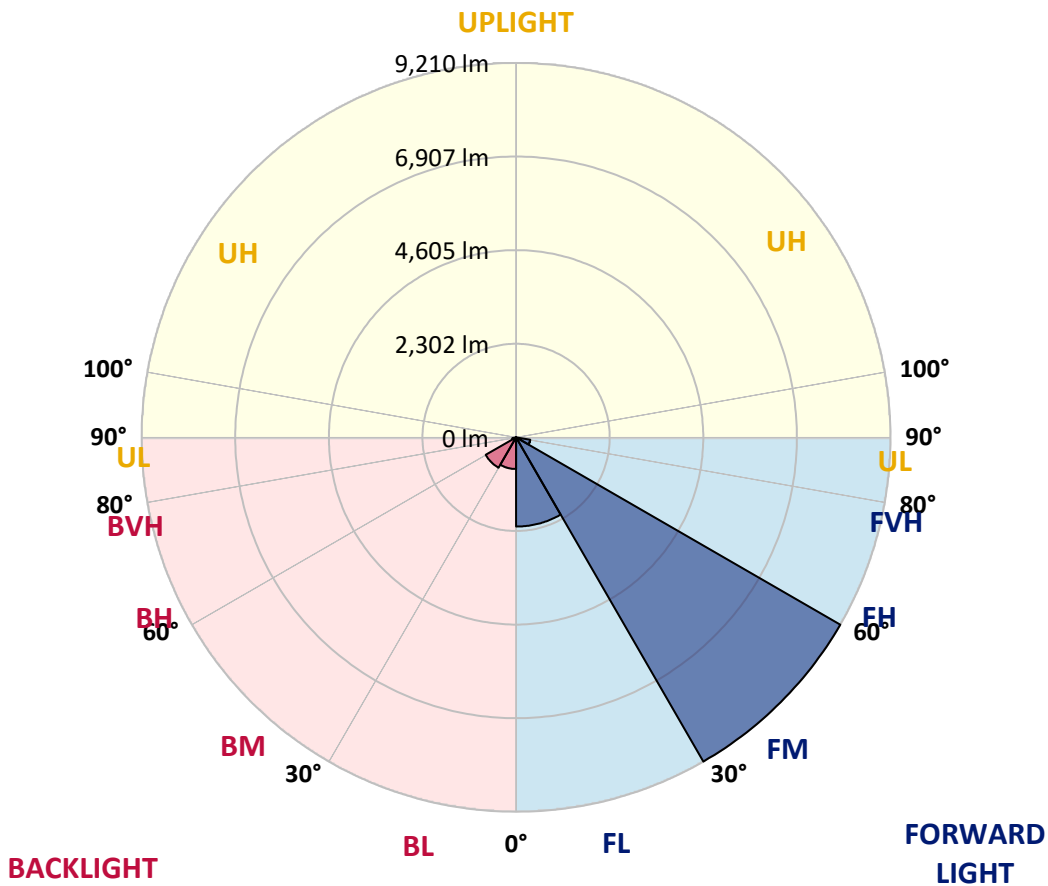
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2193.9	16.3			
FM (30°-60°)	9209.5	68.3			
FH (60°-80°)	353.2	2.6			G0/660
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	778.1	5.8	B2/1000		
BM (30°-60°)	862.1	6.4	B1/1000		
BH (60°-80°)	91.5	0.7	B0/110		G0/110
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	4087.4	4087.4	4087.4	4087.4	4087.4	4087.4	4087.4	4087.4	4087.4	4087.4	4087.4
2.5°	4657.6	4694.9	4684.6	4635.8	4583.1	4545.9	4488.1	4470.1	4339.1	4248.0	4151.7
5°	5220.1	5231.6	5218.8	5159.7	5067.3	4978.6	4883.6	4828.4	4608.8	4411.1	4209.4
7.5°	5354.9	5340.8	5365.2	5394.7	5381.9	5343.3	5243.2	5182.8	4920.9	4598.5	4292.9
10°	4933.7	4901.6	4992.8	5145.6	5306.1	5487.2	5461.5	5466.6	5225.2	4834.8	4402.1
12.5°	4375.1	4362.3	4430.3	4607.5	4922.1	5333.1	5432.0	5597.6	5503.9	5090.4	4526.6
15°	4129.8	4136.2	4177.3	4289.1	4515.1	5026.2	5263.7	5562.9	5753.0	5338.2	4664.0
17.5°	4167.1	4190.2	4188.9	4226.1	4363.5	4773.2	5050.6	5453.8	5945.6	5623.3	4822.0
20°	4420.0	4443.2	4408.5	4380.2	4426.5	4709.0	4938.8	5343.3	6075.3	5910.9	4988.9
22.5°	4798.9	4825.8	4743.6	4662.7	4633.2	4814.3	4981.2	5298.4	6174.2	6174.2	5137.9
25°	5257.3	5294.5	5167.4	5023.6	4941.4	5036.4	5162.3	5399.8	6275.6	6410.5	5239.3
27.5°	5769.7	5771.0	5661.8	5500.0	5345.9	5357.5	5433.2	5628.4	6387.4	6664.7	5318.9
30°	6346.3	6350.1	6205.0	6011.1	5817.2	5764.5	5828.8	5976.4	6619.8	6984.5	5429.4
32.5°	7091.1	7109.1	6901.0	6615.9	6364.2	6265.4	6302.6	6458.0	6989.6	7385.1	5595.0
35°	8097.8	8117.1	7810.2	7433.9	7033.3	6884.3	6921.6	7078.2	7525.1	7954.0	5859.6
37.5°	9091.8	9117.5	8806.7	8456.1	7906.5	7660.0	7698.5	7847.4	8329.0	8739.9	6283.3
40°	9778.8	9813.5	9717.2	9480.9	8971.1	8647.5	8693.7	8747.6	9213.8	9679.9	6833.0
42.5°	10140.9	10189.7	10230.8	10351.5	10083.1	9812.2	9733.9	9737.7	10114.0	10637.9	7404.4
45°	10162.8	10210.3	10420.9	10887.0	11091.2	11034.7	10892.2	10795.8	10801.0	11276.1	7761.4
47.5°	9456.5	9545.1	9939.3	10852.3	11620.3	12089.0	12017.1	11788.5	11089.9	11318.5	7722.9
50°	7783.2	7870.6	8587.1	9900.8	11235.0	12510.2	12806.8	12499.9	10901.1	10790.7	7326.1
52.5°	5652.8	5661.8	6126.7	7661.2	9673.5	11733.3	12431.9	12402.3	10613.5	10151.2	6784.2
55°	2685.2	2653.1	3175.7	4323.7	6690.4	9489.9	10667.4	11001.3	10205.1	9688.9	6364.2
57.5°	782.0	797.5	1029.9	1687.4	3346.5	6065.0	7305.5	7927.1	8376.5	7965.6	4936.3
60°	350.6	351.9	391.7	513.7	1114.6	2821.3	3776.7	4545.9	5008.2	4640.9	2448.9
62.5°	254.3	255.5	271.0	290.2	378.8	955.4	1416.4	1887.7	1922.4	1258.5	620.2
65°	211.9	211.9	214.5	214.5	227.3	341.6	430.2	554.8	467.4	346.7	242.7
67.5°	170.8	172.1	174.6	174.6	170.8	170.8	184.9	202.9	217.0	268.4	223.4
70°	133.6	132.3	132.3	133.6	129.7	110.4	119.4	136.1	149.0	209.3	193.9
72.5°	104.0	105.3	104.0	98.9	89.9	65.5	70.6	88.6	95.0	131.0	131.0
75°	78.3	79.6	74.5	56.5	37.2	20.5	27.0	43.7	55.2	64.2	47.5
77.5°	10.3	10.3	7.7	7.7	6.4	7.7	7.7	10.3	15.4	15.4	11.6
80°	1.3	1.3	1.3	2.6	3.9	5.1	5.1	5.1	5.1	6.4	6.4
82.5°	1.3	1.3	1.3	1.3	3.9	3.9	5.1	5.1	5.1	5.1	5.1
85°	0.0	0.0	0.0	1.3	2.6	3.9	3.9	5.1	5.1	5.1	5.1
87.5°	0.0	0.0	0.0	1.3	2.6	3.9	3.9	3.9	5.1	5.1	5.1
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°	4087.4	4087.4	4087.4	4087.4	4087.4	4087.4	4087.4	4087.4	4087.4	4087.4	4087.4
2.5°	4093.9	4019.4	3929.5	3867.9	3780.5	3722.8	3640.6	3585.3	3537.8	3500.6	3521.1
5°	4095.2	3977.0	3793.4	3636.7	3465.9	3309.3	3141.0	3008.8	2889.3	2835.4	2864.9
7.5°	4120.8	3951.3	3670.1	3391.4	3064.0	2740.4	2437.3	2190.8	2068.8	2011.0	2029.0
10°	4170.9	3939.8	3532.7	3070.4	2538.8	2097.0	1802.9	1636.0	1567.9	1532.0	1538.4
12.5°	4217.1	3932.1	3354.2	2647.9	2003.3	1627.0	1474.2	1451.1	1465.2	1466.5	1465.2
15°	4280.1	3917.9	3133.3	2213.9	1602.6	1406.1	1410.0	1443.4	1476.8	1487.0	1484.5
17.5°	4346.8	3896.1	2848.2	1797.8	1359.9	1341.9	1386.9	1431.8	1465.2	1470.4	1471.6
20°	4416.2	3851.2	2523.4	1467.8	1246.9	1293.1	1343.2	1376.6	1401.0	1408.7	1411.3
22.5°	4448.3	3756.1	2148.4	1231.5	1171.1	1232.8	1270.0	1313.7	1321.4	1293.1	1298.3
25°	4431.6	3595.6	1782.4	1072.3	1095.4	1157.0	1212.2	1190.4	1158.3	1137.8	1144.2
27.5°	4379.0	3382.5	1424.1	955.4	1014.5	1092.8	1099.2	1074.8	1069.7	1053.0	1058.1
30°	4322.4	3137.2	1145.5	861.7	932.3	1014.5	995.2	1004.2	1005.5	986.2	992.6
32.5°	4287.8	2880.3	911.7	798.7	879.6	895.1	933.6	951.6	952.8	907.9	915.6
35°	4299.3	2627.4	771.8	747.4	830.8	827.0	880.9	891.2	816.7	755.1	761.5
37.5°	4393.1	2393.7	692.2	707.6	746.1	775.6	816.7	748.7	732.0	703.7	707.6
40°	4567.7	2194.6	644.6	683.2	688.3	735.8	672.9	681.9	683.2	665.2	669.0
42.5°	4771.9	2029.0	616.4	669.0	656.2	663.9	601.0	619.0	638.2	630.5	631.8
45°	4874.6	1867.2	592.0	620.2	624.1	550.9	536.8	556.0	580.4	584.3	585.6
47.5°	4783.5	1713.1	566.3	549.6	575.3	502.1	485.4	491.8	520.1	535.5	538.1
50°	4504.8	1535.8	527.8	486.7	472.6	450.7	435.3	436.6	468.7	495.7	500.8
52.5°	4113.1	1350.9	464.9	412.2	380.1	396.8	400.7	392.9	422.5	449.5	454.6
55°	3733.0	1119.8	368.6	335.2	305.6	341.6	351.9	341.6	350.6	368.6	369.8
57.5°	2628.7	633.1	282.5	277.4	253.0	292.8	309.5	294.1	278.7	290.2	292.8
60°	1218.7	331.3	217.0	217.0	210.6	251.7	279.9	258.1	228.6	233.7	237.6
62.5°	381.4	209.3	159.2	150.2	172.1	214.5	237.6	215.7	181.1	181.1	186.2
65°	215.7	179.8	125.8	115.6	140.0	172.1	186.2	163.1	132.3	129.7	129.7
67.5°	200.3	170.8	111.7	93.7	98.9	110.4	115.6	100.2	91.2	89.9	91.2
70°	165.7	142.5	89.9	64.2	60.4	59.1	61.6	57.8	55.2	56.5	60.4
72.5°	102.7	86.0	56.5	38.5	33.4	32.1	32.1	32.1	30.8	30.8	30.8
75°	37.2	32.1	25.7	19.3	16.7	15.4	15.4	16.7	15.4	14.1	12.8
77.5°	11.6	10.3	10.3	10.3	9.0	7.7	6.4	6.4	5.1	3.9	3.9
80°	6.4	6.4	6.4	6.4	5.1	5.1	3.9	2.6	1.3	1.3	0.0
82.5°	6.4	6.4	6.4	5.1	5.1	5.1	3.9	2.6	1.3	0.0	0.0
85°	5.1	5.1	5.1	5.1	5.1	5.1	3.9	2.6	1.3	0.0	0.0
87.5°	5.1	5.1	5.1	5.1	5.1	5.1	3.9	2.6	1.3	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)