

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: P640249

Luminaire Tested: GWS-SA5D-740-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640249
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-740-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25045.8 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

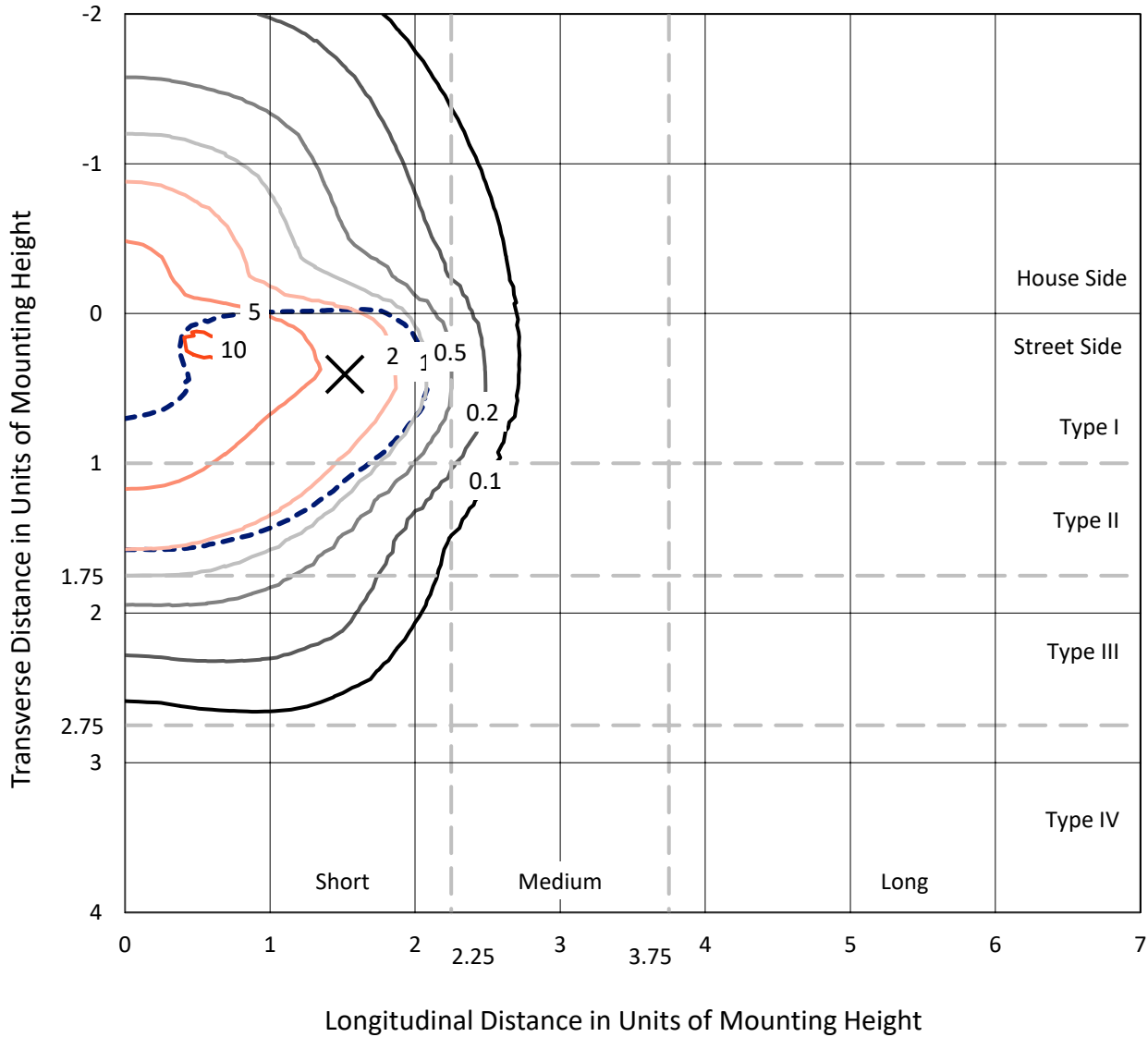
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

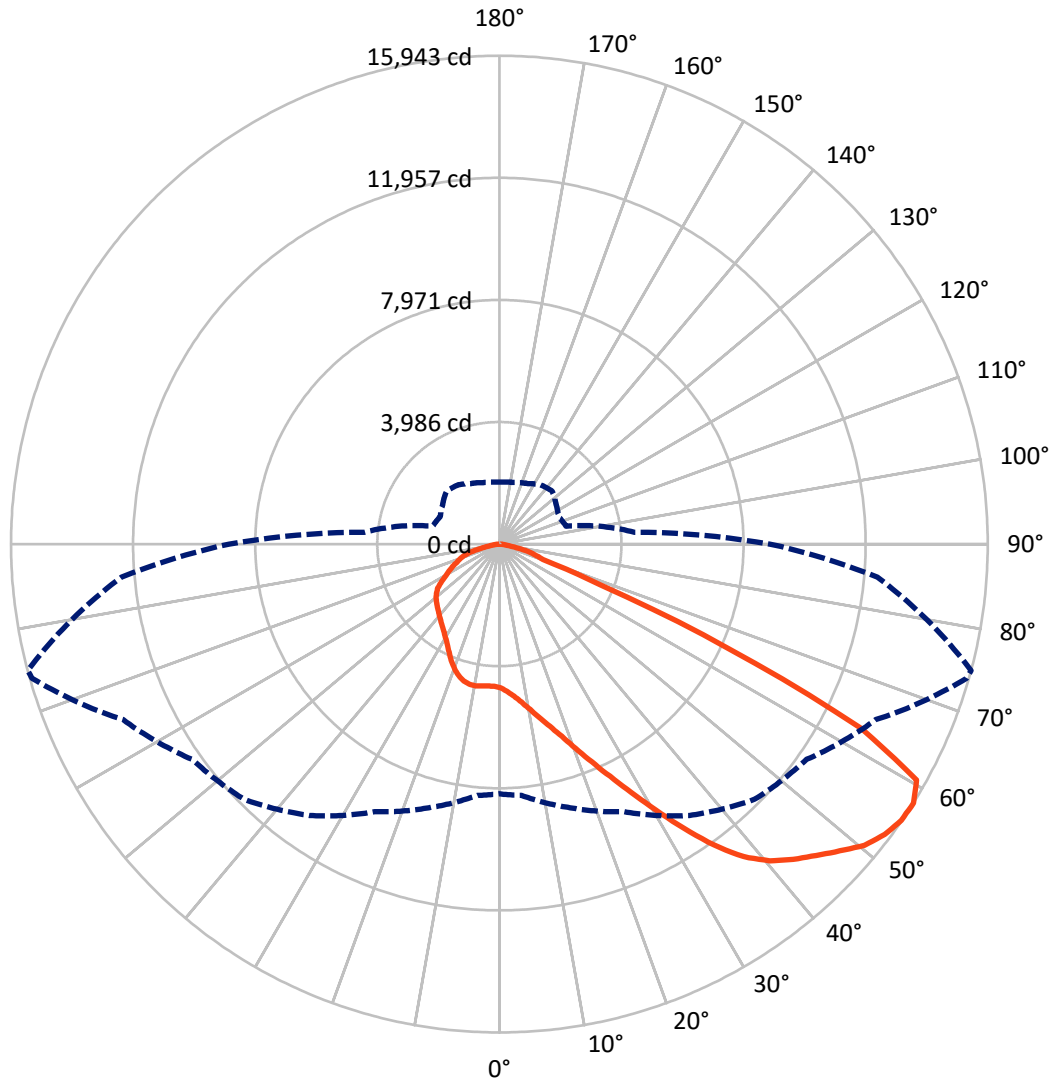
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6775.4	0.0	6775.4
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	18270.4	0.0	18270.4
	% Fixture	72.9	0.0	72.9
Total	Lumens	25045.8	0.0	25045.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.4	1.9
10°-20°	1494.4	6.0
20°-30°	2650.3	10.6
30°-40°	4057.1	16.2
40°-50°	5649.2	22.6
50°-60°	6472.8	25.8
60°-70°	3325.9	13.3
70°-80°	837.3	3.3
80°-90°	89.5	0.4
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°	25045.8	100.0
0°-180°	25045.8	100.0

Coefficient of Utilization



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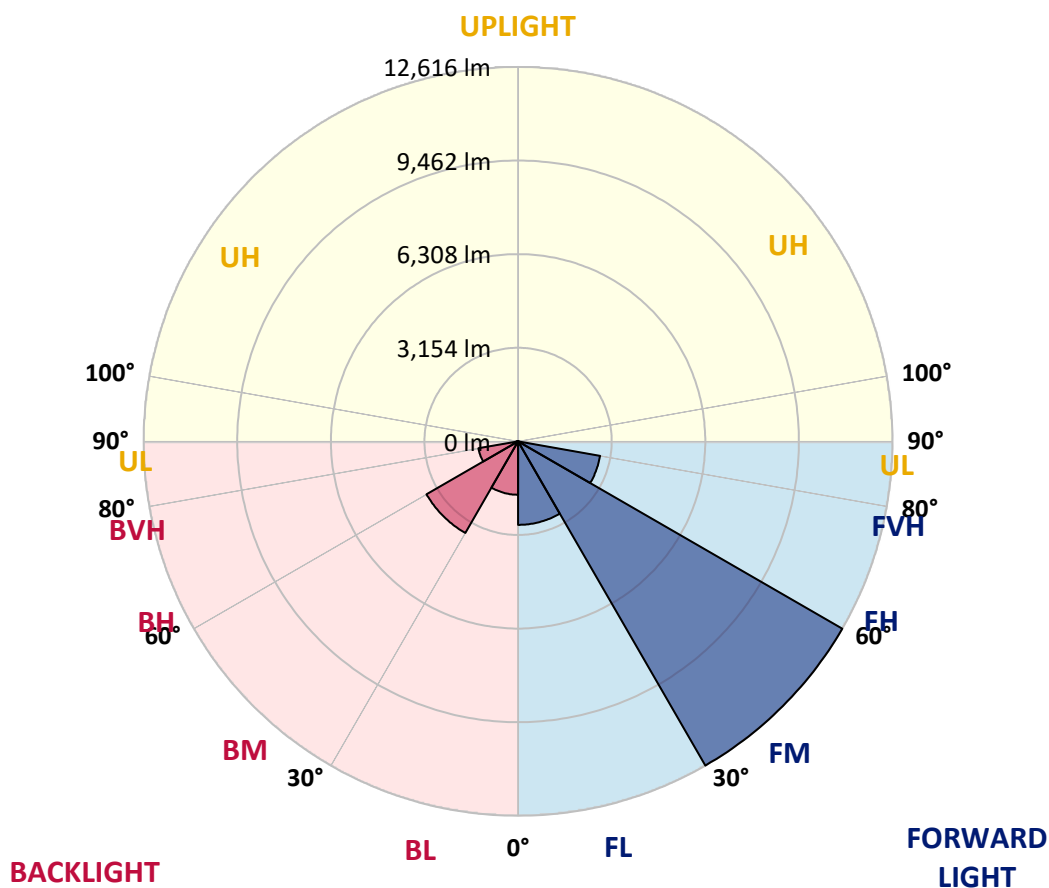
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2814.0	11.2			
FM (30°-60°)	12615.8	50.4			
FH (60°-80°)	2807.4	11.2			G2/5000
FVH (80°-90°)	33.1	0.1			G1/100
BL (0°-30°)	1800.0	7.2	B3/2500		
BM (30°-60°)	3563.2	14.2	B3/5000		
BH (60°-80°)	1355.8	5.4	B3/2500		G3/2500
BVH (80°-90°)	56.4	0.2			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	4690.5	4690.5	4690.5	4690.5	4690.5	4690.5	4690.5	4690.5	4690.5	4690.5	4690.5
2.5°	5039.4	5052.3	5039.4	5060.9	5017.8	4998.4	4951.1	4880.0	4824.0	4815.4	4752.9
5°	5431.3	5459.3	5442.1	5433.5	5375.3	5332.2	5261.2	5119.0	5002.7	4985.5	4862.8
7.5°	5683.3	5702.7	5702.7	5709.1	5687.6	5638.0	5562.7	5394.7	5231.0	5205.2	5020.0
10°	5767.3	5782.3	5810.3	5864.2	5907.2	5922.3	5872.8	5711.3	5511.0	5485.1	5226.7
12.5°	5786.6	5803.9	5846.9	5946.0	6064.5	6172.1	6180.7	6062.3	5838.3	5810.3	5465.8
15°	5823.3	5840.5	5898.6	6021.4	6195.8	6402.6	6529.6	6447.8	6200.1	6170.0	5737.1
17.5°	5818.9	5838.3	5924.5	6088.1	6322.9	6622.2	6867.7	6902.2	6645.9	6594.2	6045.1
20°	5808.2	5825.4	5918.0	6118.3	6409.0	6820.4	7264.0	7442.7	7167.1	7119.7	6404.7
22.5°	5894.3	5913.7	5984.8	6150.6	6454.3	6973.3	7630.1	8060.8	7785.2	7718.4	6818.2
25°	6088.1	6116.1	6159.2	6273.4	6536.1	7108.9	8004.8	8760.7	8478.6	8398.9	7268.3
27.5°	6387.5	6421.9	6482.2	6536.1	6719.1	7281.2	8377.4	9544.6	9262.5	9178.5	7744.2
30°	6753.6	6798.8	6876.4	6913.0	7037.9	7535.3	8782.3	10352.2	10188.5	10072.3	8280.5
32.5°	7259.7	7322.1	7395.4	7406.1	7481.5	7920.8	9182.8	11153.3	11151.2	11069.4	8889.9
35°	7918.7	7985.4	8000.5	8015.6	8052.2	8450.6	9667.4	11883.4	12165.5	12070.8	9553.2
37.5°	8638.0	8734.9	8758.6	8691.8	8743.5	9088.1	10212.2	12469.2	13048.5	12947.3	10195.0
40°	9406.8	9445.6	9510.2	9404.6	9469.3	9818.1	10746.3	12843.9	13707.5	13599.8	10701.1
42.5°	9958.1	10029.2	10126.1	10087.3	10123.9	10442.7	11121.0	13024.8	14177.0	14069.3	11065.0
45°	10556.8	10578.3	10640.8	10632.2	10653.7	10950.9	11390.2	13104.5	14596.9	14500.0	11375.2
47.5°	11078.0	11110.3	11151.2	11103.8	11056.4	11250.3	11609.9	13173.4	15081.5	14965.2	11700.3
50°	11579.7	11607.7	11657.3	11519.4	11342.9	11392.4	11717.6	13268.1	15535.9	15454.0	11956.6
52.5°	11672.4	11702.5	11935.1	11963.1	11737.0	11562.5	11907.1	13477.0	15802.9	15751.2	12049.2
55°	10507.3	10561.1	11024.1	11556.1	12113.8	12057.8	12210.7	13586.9	15908.4	15921.3	12215.1
57.5°	8155.6	8233.1	8909.3	9639.4	10813.1	11784.3	12249.5	13558.9	15871.8	15942.9	12385.2
60°	5349.5	5394.7	6195.8	7014.2	8230.9	9574.8	10963.8	13054.9	15546.6	15647.8	12342.1
62.5°	3230.4	3282.0	3926.0	4546.2	5263.3	6161.4	7436.3	10492.2	13031.3	13257.4	9884.9
65°	2254.8	2323.7	2887.9	3398.3	3646.0	3460.8	3766.6	5859.9	8119.0	8213.7	6040.8
67.5°	1634.6	1681.9	2145.0	2752.3	3025.8	2444.3	1862.8	2595.1	3536.2	3570.6	2491.7
70°	1070.3	1124.2	1544.1	2095.4	2470.1	1981.3	1393.4	1404.1	1488.1	1505.3	1447.2
72.5°	587.9	620.2	954.0	1391.2	1460.1	1184.5	1087.6	1167.2	1225.4	1225.4	1240.5
75°	303.7	331.6	389.8	458.7	553.5	648.2	783.9	902.3	964.8	969.1	962.6
77.5°	155.1	165.8	208.9	226.1	247.7	288.6	374.7	480.2	536.2	557.8	553.5
80°	73.2	77.5	88.3	103.4	127.1	161.5	202.4	241.2	275.7	280.0	303.7
82.5°	38.8	43.1	47.4	56.0	68.9	86.1	118.4	142.1	163.7	168.0	187.4
85°	15.1	17.2	19.4	21.5	30.1	36.6	49.5	66.8	81.8	81.8	96.9
87.5°	0.0	0.0	0.0	0.0	2.2	4.3	8.6	10.8	15.1	15.1	25.8
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°	4690.5	4690.5	4690.5	4690.5	4690.5	4690.5	4690.5	4690.5	4690.5	4690.5	4690.5
2.5°	4737.9	4675.4	4647.4	4602.2	4565.6	4524.7	4492.3	4468.7	4453.6	4445.0	4436.4
5°	4815.4	4720.6	4645.3	4554.8	4492.3	4432.0	4382.5	4348.1	4330.8	4317.9	4309.3
7.5°	4936.0	4808.9	4666.8	4526.8	4417.0	4320.1	4257.6	4221.0	4197.3	4188.7	4182.2
10°	5101.8	4925.2	4690.5	4468.7	4305.0	4199.5	4156.4	4139.2	4141.3	4137.0	4134.9
12.5°	5289.2	5048.0	4684.0	4365.3	4184.4	4121.9	4124.1	4152.1	4184.4	4193.0	4195.2
15°	5491.6	5168.6	4621.6	4231.8	4089.6	4096.1	4152.1	4218.8	4279.1	4302.8	4307.1
17.5°	5711.3	5269.8	4507.4	4085.3	4012.1	4081.0	4184.4	4294.2	4382.5	4421.3	4432.0
20°	5956.8	5355.9	4345.9	3941.0	3938.9	4053.0	4203.8	4348.1	4460.0	4511.7	4520.3
22.5°	6217.4	5409.8	4147.8	3807.5	3863.5	4016.4	4188.7	4339.4	4457.9	4509.6	4520.3
25°	6480.1	5427.0	3930.3	3684.8	3786.0	3958.3	4115.5	4236.1	4348.1	4393.3	4401.9
27.5°	6725.6	5377.5	3723.5	3579.2	3714.9	3872.1	3977.6	4042.3	4119.8	4154.2	4160.7
30°	6975.4	5278.4	3549.1	3495.2	3635.2	3753.7	3801.1	3805.4	3835.5	3835.5	3839.8
32.5°	7227.4	5132.0	3396.2	3413.4	3536.2	3613.7	3620.2	3570.6	3534.0	3473.7	3471.6
35°	7518.1	4983.4	3271.3	3320.8	3419.9	3467.2	3447.9	3353.1	3264.8	3165.7	3161.4
37.5°	7787.3	4830.5	3165.7	3226.0	3288.5	3323.0	3277.7	3163.6	3090.4	2989.2	2974.1
40°	8009.1	4692.6	3064.5	3127.0	3157.1	3187.3	3114.1	3021.5	3032.2	2976.2	2974.1
42.5°	8138.3	4559.1	2969.8	3017.2	3036.5	3058.1	2993.5	2924.5	2982.7	2939.6	2941.8
45°	8233.1	4442.8	2883.6	2900.9	2948.2	2980.5	2920.2	2842.7	2855.6	2689.8	2651.0
47.5°	8340.8	4378.2	2801.8	2784.6	2868.6	2924.5	2831.9	2720.0	2642.4	2478.8	2463.7
50°	8454.9	4354.5	2715.7	2668.3	2769.5	2823.3	2715.7	2575.7	2474.5	2386.2	2377.5
52.5°	8493.7	4352.4	2608.0	2528.3	2629.5	2704.9	2614.4	2472.3	2351.7	2265.6	2261.2
55°	8646.6	4414.8	2470.1	2336.6	2431.4	2586.4	2519.7	2315.1	2218.2	2179.4	2175.1
57.5°	8825.3	4425.6	2252.6	2127.7	2259.1	2442.1	2358.2	2181.6	2076.0	2028.7	2024.4
60°	8752.1	4160.7	2020.0	1968.4	2112.7	2306.5	2228.9	2076.0	1953.3	1908.1	1903.8
62.5°	6669.6	2937.5	1849.9	1830.5	1955.4	2110.5	2095.4	1936.1	1819.8	1787.5	1783.2
65°	4012.1	2063.1	1686.2	1684.1	1772.4	1921.0	1940.4	1811.2	1688.4	1643.2	1643.2
67.5°	1983.4	1578.6	1501.0	1490.3	1546.3	1651.8	1733.6	1628.1	1524.7	1481.7	1475.2
70°	1402.0	1391.2	1365.4	1335.2	1346.0	1389.1	1423.5	1335.2	1225.4	1182.3	1173.7
72.5°	1212.5	1214.6	1197.4	1173.7	1165.1	1134.9	1104.8	1040.2	973.4	928.2	932.5
75°	941.1	945.4	956.2	947.6	923.9	891.6	859.3	777.4	723.6	680.5	671.9
77.5°	549.2	570.7	605.2	596.5	600.8	555.6	542.7	463.0	413.5	383.3	376.9
80°	310.1	323.0	338.1	348.9	336.0	316.6	288.6	245.5	230.4	208.9	204.6
82.5°	187.4	200.3	206.7	215.4	211.0	185.2	163.7	135.7	122.8	112.0	109.8
85°	94.8	103.4	109.8	114.1	101.2	84.0	75.4	60.3	51.7	45.2	45.2
87.5°	23.7	25.8	30.1	25.8	23.7	10.8	8.6	2.2	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)