

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: P640234

Luminaire Tested: GWS-SA5D-740-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640234
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-740-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25157.7 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

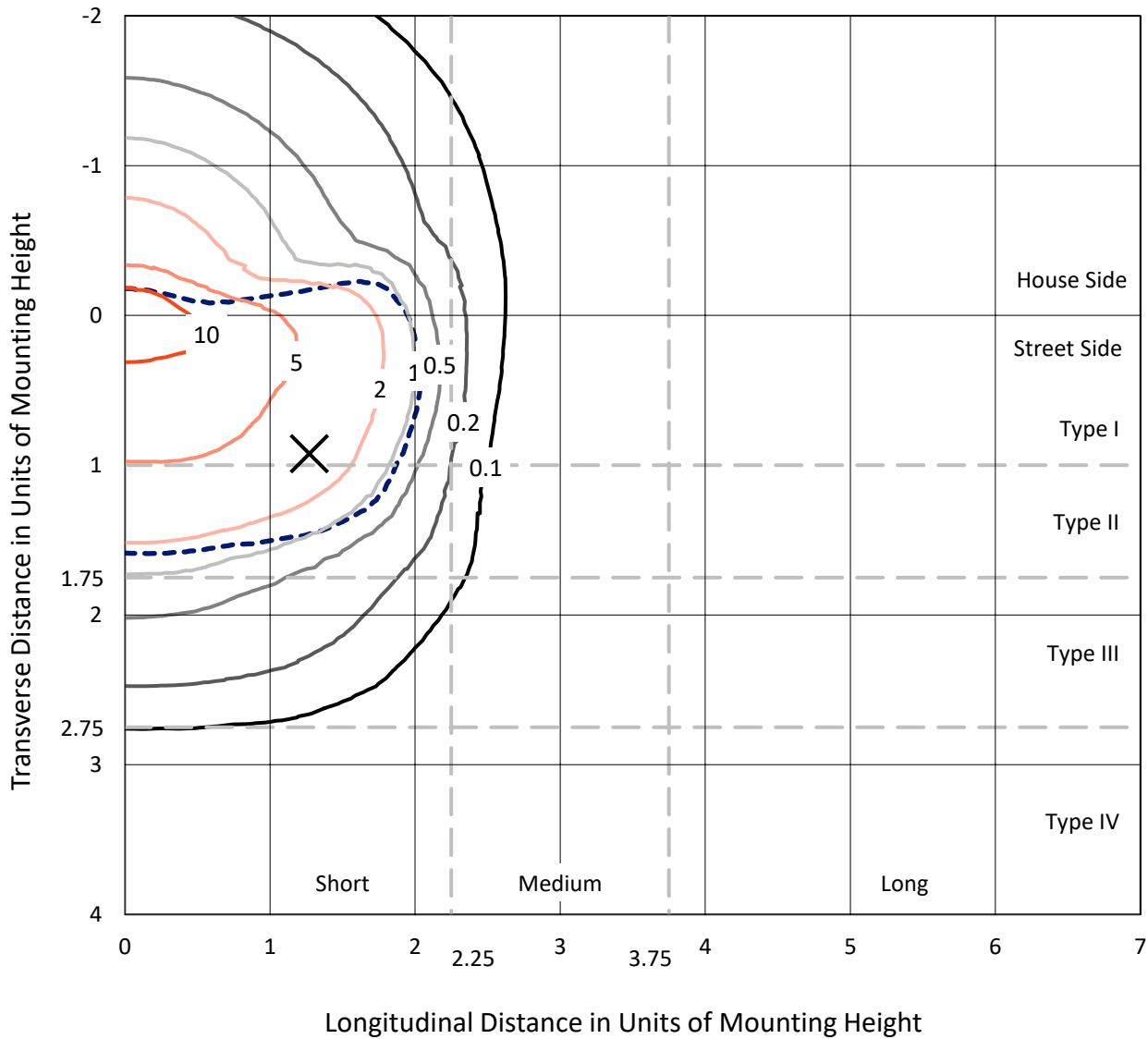
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

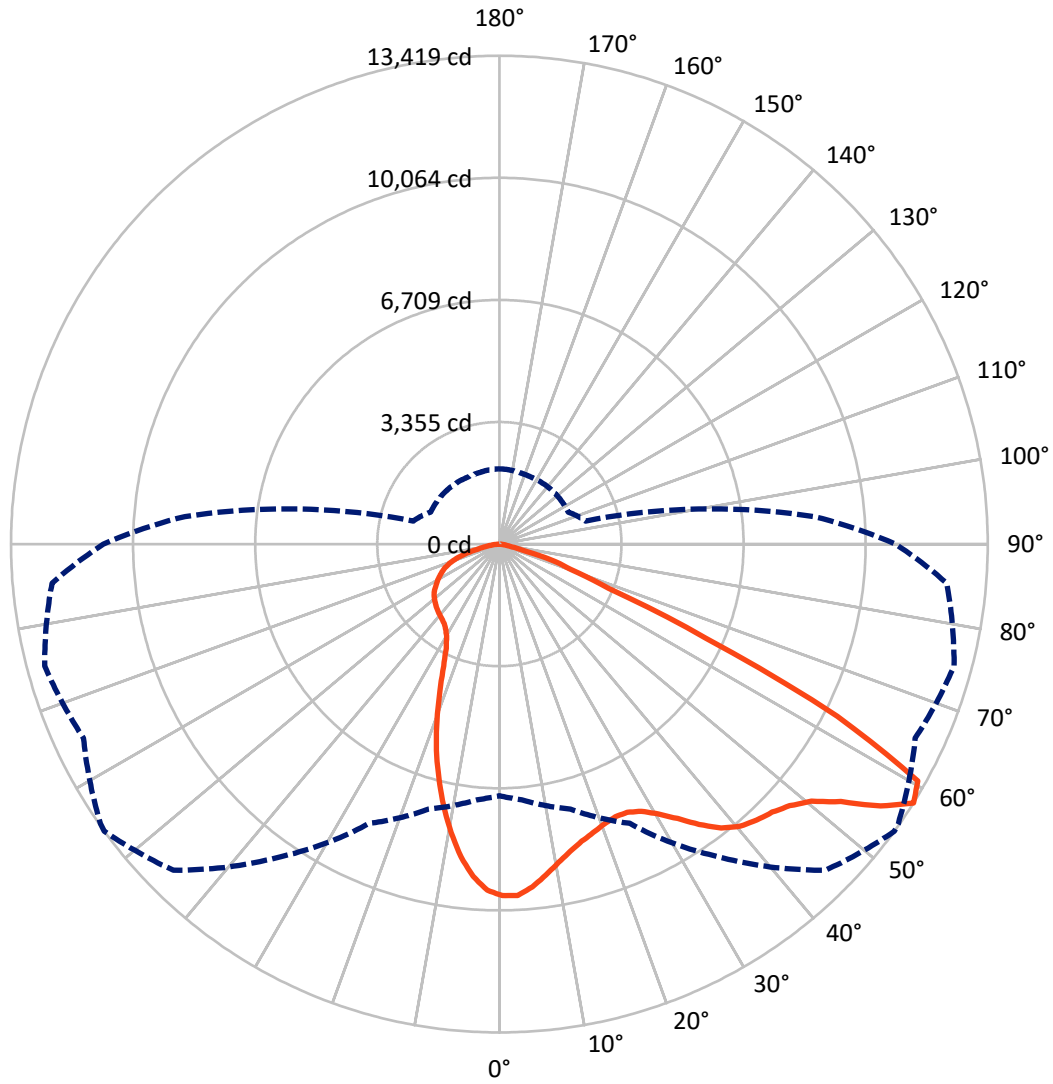
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 fc
 Type II - Short - N/A

REPORT NUMBER: P640234
CATALOG NUMBER: GWS-SA5D-740-U-SL3-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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CATALOG NUMBER: GWS-SA5D-740-U-SL3-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7313.6	0.0	7313.6
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	17844.1	0.0	17844.1
	% Fixture	70.9	0.0	70.9
Total	Lumens	25157.7	0.0	25157.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	849.0	3.4
10°-20°	2025.8	8.1
20°-30°	2803.4	11.1
30°-40°	3895.3	15.5
40°-50°	5144.5	20.4
50°-60°	6113.5	24.3
60°-70°	3387.0	13.5
70°-80°	843.4	3.4
80°-90°	95.9	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°	25157.7	100.0
0°-180°	25157.7	100.0

Coefficient of Utilization



REPORT NUMBER: P640234

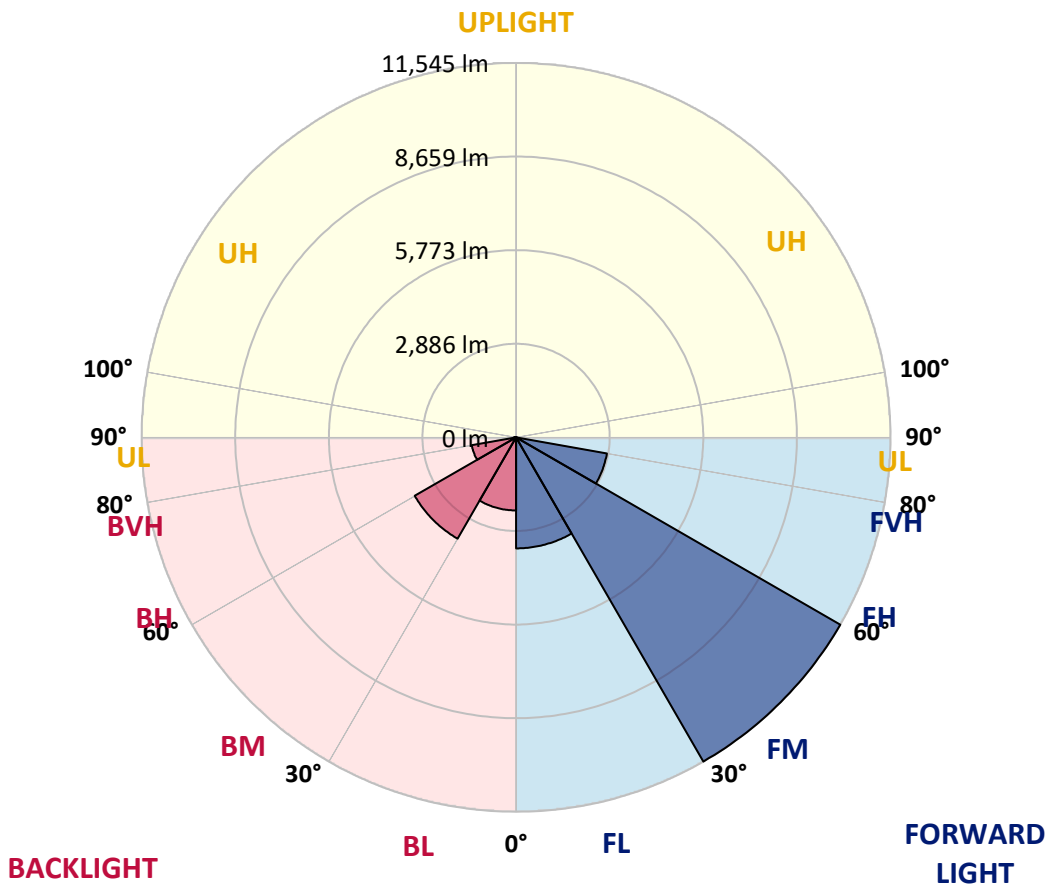
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3424.4	13.6			
FM (30°-60°)	11545.3	45.9			
FH (60°-80°)	2844.4	11.3			G2/5000
FVH (80°-90°)	30.0	0.1			G1/100
BL (0°-30°)	2253.8	9.0	B3/2500		
BM (30°-60°)	3608.0	14.3	B3/5000		
BH (60°-80°)	1386.0	5.5	B3/2500		G3/2500
BVH (80°-90°)	65.9	0.3			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





REPORT NUMBER: P640234

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9658.6	9658.6	9658.6	9658.6	9658.6	9658.6	9658.6	9658.6	9658.6	9658.6	9658.6
2.5°	9477.7	9497.1	9510.0	9555.2	9594.0	9628.5	9665.1	9665.1	9662.9	9656.5	9643.5
5°	9103.0	9124.5	9154.7	9217.1	9301.1	9361.4	9460.5	9469.1	9512.2	9529.4	9520.8
7.5°	8668.0	8674.4	8713.2	8795.0	8928.6	9036.2	9178.4	9195.6	9299.0	9359.3	9348.5
10°	8192.1	8170.5	8239.4	8360.0	8534.5	8715.4	8898.4	8913.5	9079.3	9193.4	9184.8
12.5°	7757.0	7759.2	7828.1	7974.5	8192.1	8416.0	8661.5	8696.0	8900.6	9047.0	9031.9
15°	7393.1	7401.7	7485.7	7651.5	7899.2	8166.2	8472.0	8504.3	8762.7	8956.6	8913.5
17.5°	7102.4	7111.0	7184.2	7373.7	7638.6	7961.6	8334.2	8366.5	8687.4	8917.8	8829.5
20°	6902.1	6897.8	6968.8	7149.7	7423.2	7774.3	8213.6	8261.0	8663.7	8932.9	8773.5
22.5°	6820.3	6818.1	6869.8	7018.4	7274.6	7630.0	8140.4	8205.0	8689.5	8999.6	8739.1
25°	6861.2	6852.6	6897.8	7007.6	7212.2	7574.0	8161.9	8230.8	8799.4	9137.5	8745.5
27.5°	6988.2	6977.5	7016.2	7115.3	7270.3	7632.1	8312.7	8392.3	9031.9	9389.4	8831.7
30°	7182.0	7175.6	7214.3	7309.1	7444.8	7826.0	8601.2	8691.7	9391.6	9781.4	9019.0
32.5°	7408.2	7397.4	7466.3	7576.1	7733.4	8179.1	8988.9	9107.3	9818.0	10285.3	9333.4
35°	7662.3	7653.7	7748.4	7907.8	8133.9	8670.1	9458.3	9587.5	10253.0	10856.0	9751.2
37.5°	7909.9	7909.9	8093.0	8329.9	8614.1	9204.2	9899.8	9981.6	10554.5	11362.1	10199.2
40°	8129.6	8142.5	8418.2	8773.5	9135.3	9686.6	10190.5	10259.4	10688.0	11710.9	10588.9
42.5°	8373.0	8383.7	8704.6	9169.8	9600.5	10076.4	10367.1	10401.6	10713.8	11885.4	10864.6
45°	8566.8	8581.8	8980.2	9477.7	10005.3	10369.3	10507.1	10537.3	10750.5	11980.1	11064.9
47.5°	8668.0	8689.5	9146.1	9725.4	10278.8	10632.0	10737.5	10750.5	10901.2	12145.9	11306.1
50°	8650.8	8693.8	9208.5	9848.1	10481.3	10896.9	11107.9	11129.5	11209.2	12389.3	11588.2
52.5°	8803.7	8823.0	9342.0	9994.6	10769.8	11385.7	11751.9	11782.0	11745.4	12572.3	11756.2
55°	8549.5	8642.1	9176.2	9973.0	11209.2	12141.6	12705.9	12690.8	12232.1	12776.9	12036.1
57.5°	6915.0	7050.7	7539.5	8465.6	10485.6	12671.4	13418.7	13382.1	12609.0	12934.1	12339.8
60°	4787.3	4808.8	5250.3	5907.2	8093.0	11194.1	13209.8	13289.5	12677.9	12736.0	11777.7
62.5°	3829.0	3822.5	3863.4	3880.7	5147.0	7869.0	10427.4	10718.2	10532.9	9923.5	8347.1
65°	3269.1	3292.8	3413.4	3350.9	3359.5	4432.0	6230.2	6271.1	6141.9	5922.2	4414.8
67.5°	2558.4	2599.3	2812.5	3055.9	2978.3	2853.4	3232.5	3213.1	2532.6	1959.7	1619.5
70°	1602.2	1628.1	1856.3	2399.0	2592.9	2343.0	2078.2	2069.5	1356.7	1115.5	1223.2
72.5°	934.6	938.9	1003.5	1337.3	1720.7	1602.2	1529.0	1473.0	872.2	889.4	975.6
75°	514.7	514.7	512.5	577.1	678.4	600.8	581.5	566.4	583.6	661.1	725.7
77.5°	107.7	109.8	116.3	152.9	198.1	241.2	303.6	305.8	381.2	441.5	493.2
80°	49.5	51.7	64.6	81.8	105.5	140.0	185.2	187.4	230.4	277.8	312.3
82.5°	25.8	28.0	34.5	43.1	56.0	73.2	103.4	103.4	137.8	163.7	185.2
85°	8.6	8.6	12.9	17.2	23.7	30.1	40.9	40.9	60.3	79.7	92.6
87.5°	0.0	0.0	0.0	0.0	2.2	4.3	8.6	8.6	10.8	12.9	21.5
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°	9658.6	9658.6	9658.6	9658.6	9658.6	9658.6	9658.6	9658.6	9658.6	9658.6	9658.6
2.5°	9615.5	9548.8	9550.9	9563.9	9522.9	9460.5	9419.6	9367.9	9335.6	9329.1	9352.8
5°	9477.7	9400.2	9346.3	9290.4	9174.1	9036.2	8928.6	8840.3	8782.1	8760.6	8734.7
7.5°	9288.2	9187.0	9051.3	8894.1	8683.1	8437.6	8265.3	8103.8	7991.8	7959.5	7944.4
10°	9098.7	8952.3	8711.1	8418.2	8067.1	7735.5	7423.2	7184.2	6994.7	6887.0	6921.5
12.5°	8902.7	8721.8	8345.0	7894.9	7406.0	6906.4	6497.2	6101.0	5795.2	5642.3	5597.0
15°	8730.4	8484.9	7959.5	7350.0	6699.7	6070.8	5478.6	4884.2	4496.6	4285.5	4227.4
17.5°	8584.0	8265.3	7552.5	6794.4	6017.0	5121.1	4393.2	3841.9	3577.0	3460.7	3452.1
20°	8439.7	8049.9	7149.7	6195.7	5228.8	4225.2	3574.9	3316.4	3221.7	3180.8	3178.6
22.5°	8310.5	7823.8	6725.5	5597.0	4444.9	3551.2	3193.7	3081.7	3055.9	3055.9	3051.6
25°	8200.7	7597.7	6290.5	4961.7	3736.4	3161.4	2995.6	2948.2	2959.0	2978.3	2980.5
27.5°	8155.4	7421.1	5870.5	4309.2	3247.5	2935.3	2859.9	2853.4	2883.6	2913.7	2918.0
30°	8202.8	7300.5	5439.8	3684.7	2954.7	2797.4	2763.0	2775.9	2812.5	2842.7	2842.7
32.5°	8349.3	7240.2	5000.5	3228.2	2784.5	2700.5	2689.8	2702.7	2730.7	2747.9	2750.1
35°	8596.9	7263.9	4546.1	2920.2	2674.7	2629.5	2627.3	2635.9	2646.7	2657.5	2659.6
37.5°	8909.2	7369.4	4059.4	2741.5	2603.6	2577.8	2573.5	2571.3	2573.5	2573.5	2575.6
40°	9215.0	7528.8	3624.4	2635.9	2554.1	2532.6	2521.8	2506.7	2504.6	2500.3	2498.1
42.5°	9441.1	7651.5	3277.7	2560.6	2508.9	2483.0	2470.1	2446.4	2444.3	2442.1	2440.0
45°	9611.2	7754.9	2989.1	2487.3	2461.5	2437.8	2409.8	2388.3	2392.6	2396.9	2396.9
47.5°	9802.9	7845.3	2778.1	2418.4	2403.3	2379.7	2345.2	2330.1	2345.2	2360.3	2360.3
50°	10035.5	7972.4	2605.8	2349.5	2343.0	2315.1	2284.9	2278.4	2295.7	2317.2	2317.2
52.5°	10205.6	8082.2	2483.0	2280.6	2280.6	2244.0	2218.1	2216.0	2235.4	2256.9	2259.1
55°	10524.3	8338.5	2440.0	2200.9	2192.3	2164.3	2144.9	2129.8	2153.5	2172.9	2172.9
57.5°	10884.0	8678.8	2450.7	2086.8	2076.0	2067.4	2052.3	2035.1	2041.6	2063.1	2065.2
60°	10121.6	8019.8	2332.3	1972.6	1966.2	1961.9	1942.5	1912.3	1921.0	1938.2	1940.3
62.5°	7070.1	5330.0	1886.5	1830.5	1852.0	1849.9	1824.0	1789.6	1791.7	1815.4	1815.4
65°	3669.6	2883.6	1656.1	1701.3	1733.6	1720.7	1677.6	1647.5	1643.1	1673.3	1666.8
67.5°	1582.8	1574.2	1507.5	1565.6	1600.1	1572.1	1526.9	1477.3	1481.6	1492.4	1483.8
70°	1274.9	1313.7	1341.7	1404.1	1432.1	1380.4	1330.9	1302.9	1279.2	1277.0	1262.0
72.5°	1018.6	1072.5	1134.9	1199.5	1208.1	1156.4	1094.0	1068.2	1031.5	1029.4	1014.3
75°	766.7	811.9	861.4	913.1	913.1	863.6	822.7	809.7	766.7	753.7	740.8
77.5°	523.3	551.3	590.1	603.0	615.9	596.5	555.6	534.1	484.5	471.6	454.4
80°	329.5	348.9	372.6	381.2	394.1	370.4	338.1	314.4	280.0	269.2	260.6
82.5°	198.1	211.0	226.1	230.4	241.2	224.0	193.8	176.6	157.2	148.6	142.1
85°	101.2	107.7	116.3	118.4	116.3	99.1	88.3	79.7	66.8	64.6	60.3
87.5°	25.8	30.1	32.3	30.1	28.0	21.5	15.1	10.8	4.3	4.3	2.2
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)