

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: P642203

Luminaire Tested: GWS-SA6C-740-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642203
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-SA6C-740-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25759.7 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

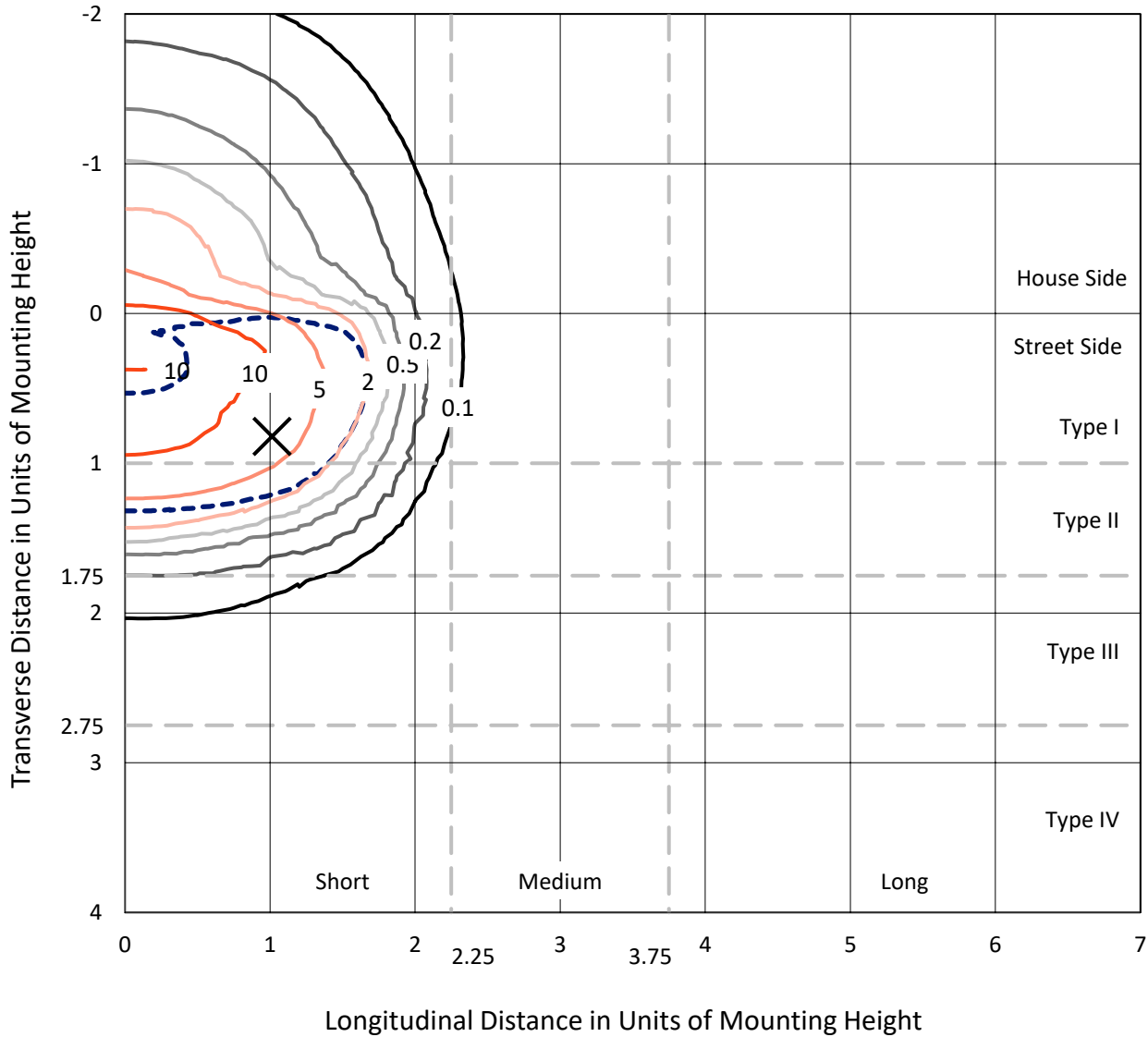
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

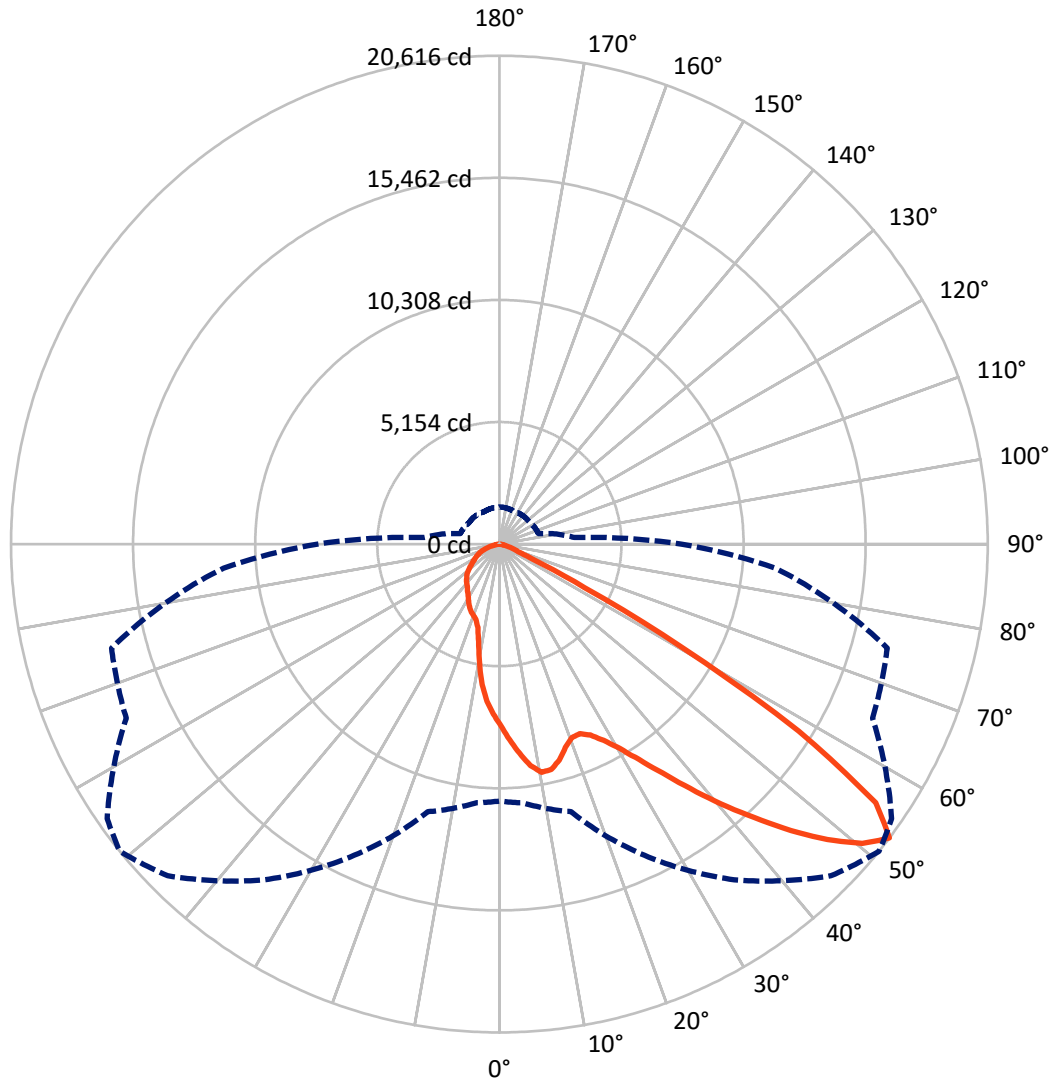
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 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	5019.1	0.0	5019.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	20740.6	0.0	20740.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	25759.7	0.0	25759.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	715.7	2.8
10°-20°	1859.7	7.2
20°-30°	3023.7	11.7
30°-40°	4791.9	18.6
40°-50°	7227.3	28.1
50°-60°	6252.2	24.3
60°-70°	1417.4	5.5
70°-80°	417.9	1.6
80°-90°	53.8	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°	25759.7	100.0
0°-180°	25759.7	100.0

Coefficient of Utilization



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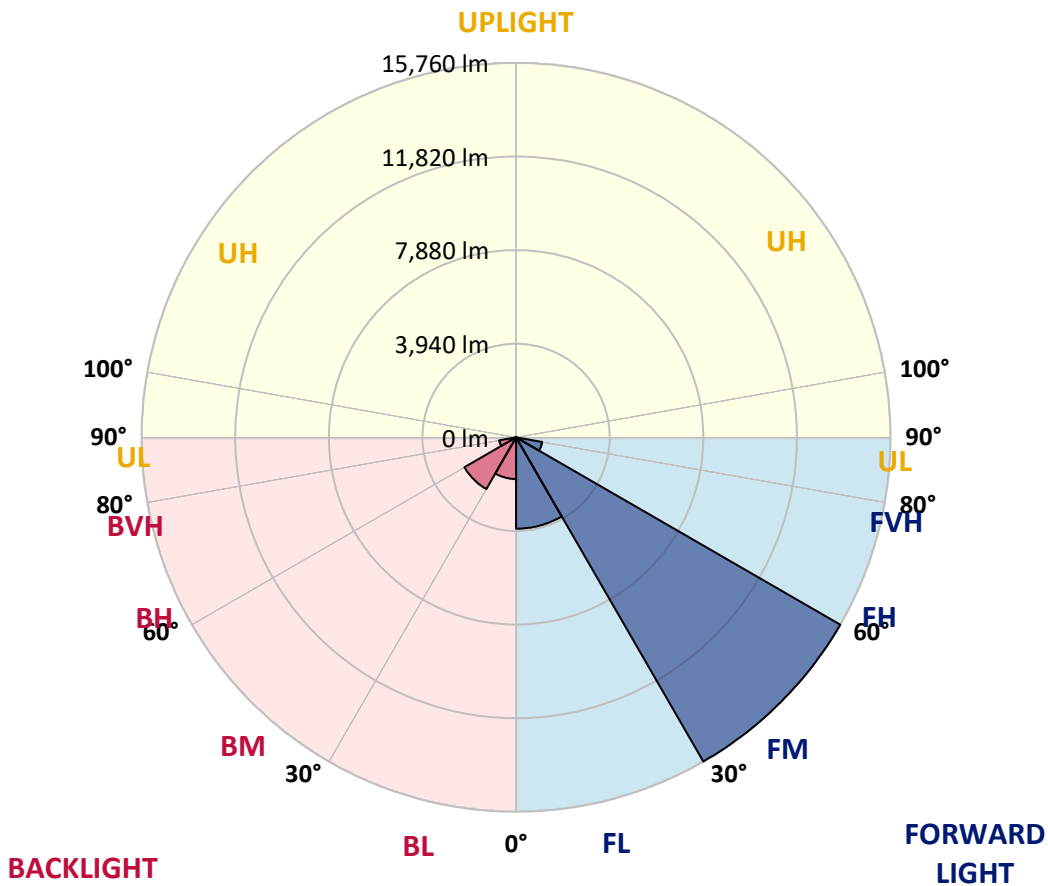
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3844.7	14.9			
FM (30°-60°)	15760.2	61.2			
FH (60°-80°)	1115.5	4.3			G1/1800
FVH (80°-90°)	20.3	0.1			G1/100
BL (0°-30°)	1754.5	6.8	B3/2500		
BM (30°-60°)	2511.2	9.7	B3/5000		
BH (60°-80°)	719.9	2.8	B2/1000		G2/1000
BVH (80°-90°)	33.5	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°	7669.9	7669.9	7669.9	7669.9	7669.9	7669.9	7669.9	7669.9	7669.9	7669.9	7669.9
2.5°	8547.3	8596.1	8520.8	8492.3	8445.5	8364.1	8270.4	8244.0	8042.5	7910.1	7761.5
5°	9406.3	9432.7	9371.7	9310.6	9194.6	9050.0	8868.9	8830.2	8463.8	8160.5	7845.0
7.5°	9597.6	9587.4	9640.4	9675.0	9660.7	9603.7	9442.9	9367.6	8930.0	8449.6	7983.4
10°	8840.4	8783.4	8978.8	9210.9	9489.7	9811.3	9793.0	9786.9	9406.3	8838.4	8160.5
12.5°	7836.9	7808.4	7967.1	8258.2	8785.4	9497.9	9764.5	9972.2	9835.8	9208.8	8358.0
15°	7262.8	7252.7	7360.5	7570.2	7989.5	8889.2	9459.2	9870.4	10204.2	9605.8	8567.6
17.5°	7159.0	7165.1	7201.8	7321.9	7623.1	8364.1	9023.6	9597.6	10491.2	10041.4	8830.2
20°	7462.3	7503.0	7439.9	7458.3	7621.1	8174.8	8726.4	9322.8	10674.4	10479.0	9113.2
22.5°	8136.1	8121.8	7983.4	7902.0	7904.0	8290.8	8693.8	9194.6	10794.5	10904.4	9369.6
25°	8899.4	8883.1	8718.3	8537.1	8423.1	8606.3	8927.9	9331.0	10902.4	11293.2	9575.2
27.5°	9801.2	9750.3	9567.1	9335.0	9082.6	9162.0	9379.8	9699.4	11069.3	11675.9	9711.6
30°	10674.4	10733.4	10470.9	10196.1	9929.4	9880.6	10006.8	10295.8	11409.3	12123.7	9874.4
32.5°	11832.6	11812.3	11521.2	11162.9	10782.3	10745.7	10845.4	11110.0	12019.9	12742.5	10122.8
35°	13235.1	13239.2	12826.0	12341.5	11800.1	11702.4	11869.3	12125.8	12929.8	13581.2	10515.6
37.5°	14692.6	14686.5	14326.2	13776.6	13037.7	12899.3	13090.6	13282.0	14067.7	14723.1	11126.3
40°	15714.4	15755.1	15586.2	15297.1	14596.9	14259.0	14428.0	14560.3	15305.3	16066.6	11930.4
42.5°	16294.6	16355.6	16392.3	16565.3	16196.9	15836.6	15775.5	15844.7	16410.6	17314.4	12685.5
45°	16418.7	16500.2	16766.8	17408.0	17550.5	17448.7	17249.2	17082.3	17235.0	18199.8	13180.2
47.5°	15871.2	16013.7	16583.6	17705.2	18537.7	18857.3	18635.4	18381.0	17711.3	18427.8	13129.3
50°	13701.3	13868.2	15152.6	17098.6	18678.2	19842.5	19862.9	19486.3	17654.3	17770.3	12490.1
52.5°	10847.4	10961.4	11696.3	14495.1	17300.1	19801.8	20616.0	20213.0	17379.5	16948.0	11690.2
55°	6483.2	6666.4	7352.4	9563.0	13477.4	17550.5	19284.8	19480.2	17245.2	16257.9	11144.6
57.5°	2188.2	2277.8	2933.2	4223.8	7942.7	12850.4	14900.2	15694.1	15655.4	15203.5	10080.0
60°	1042.2	1062.6	1194.9	1602.0	3179.5	6715.3	8820.0	9736.0	10570.6	10654.1	6271.5
62.5°	793.9	806.1	873.3	960.8	1278.3	2829.4	4042.6	4742.8	5066.5	4347.9	2283.9
65°	663.6	673.8	724.7	779.6	869.2	1225.4	1551.1	1789.2	1612.2	1255.9	1089.0
67.5°	553.7	561.8	600.5	659.5	720.6	820.3	861.0	885.5	928.2	1042.2	1001.5
70°	433.6	441.7	482.4	533.3	592.3	616.8	655.4	679.9	765.4	911.9	907.9
72.5°	333.8	344.0	366.4	399.0	447.8	472.2	515.0	543.5	592.3	710.4	759.3
75°	244.3	250.4	270.7	280.9	287.0	280.9	323.7	356.2	421.4	466.1	478.4
77.5°	99.7	112.0	107.9	107.9	128.2	154.7	177.1	197.4	242.2	268.7	270.7
80°	40.7	44.8	52.9	59.0	71.2	91.6	105.8	114.0	134.3	150.6	162.8
82.5°	24.4	26.5	30.5	32.6	40.7	52.9	61.1	67.2	83.5	99.7	105.8
85°	12.2	12.2	14.2	16.3	20.4	24.4	28.5	32.6	42.7	52.9	59.0
87.5°	2.0	2.0	2.0	4.1	6.1	8.1	10.2	12.2	14.2	16.3	20.4
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°	7669.9	7669.9	7669.9	7669.9	7669.9	7669.9	7669.9	7669.9	7669.9	7669.9	7669.9
2.5°	7674.0	7564.1	7435.9	7334.1	7216.0	7128.5	7004.3	6927.0	6853.7	6792.6	6747.8
5°	7682.2	7496.9	7230.3	6994.1	6749.9	6517.8	6279.7	6086.3	5913.3	5768.7	5756.5
7.5°	7729.0	7462.3	7045.0	6631.8	6155.5	5695.5	5235.4	4860.9	4575.9	4427.3	4396.8
10°	7808.4	7458.3	6855.7	6196.2	5384.0	4643.1	4097.6	3812.6	3647.7	3588.7	3568.3
12.5°	7891.8	7448.1	6613.5	5581.5	4453.8	3804.4	3505.2	3470.6	3501.1	3505.2	3503.2
15°	7993.6	7442.0	6308.2	4860.9	3773.9	3415.7	3436.0	3509.3	3580.5	3596.8	3596.8
17.5°	8117.8	7427.7	5892.9	4156.6	3348.5	3340.3	3448.2	3545.9	3613.1	3625.3	3625.3
20°	8248.0	7391.1	5382.0	3582.6	3175.5	3293.5	3409.5	3484.9	3531.7	3548.0	3550.0
22.5°	8337.6	7293.4	4793.7	3157.1	3067.6	3204.0	3287.4	3364.8	3364.8	3324.1	3311.8
25°	8355.9	7083.7	4156.6	2866.1	2939.3	3065.5	3151.0	3106.2	3022.8	2990.2	2988.2
27.5°	8288.8	6778.4	3527.6	2658.4	2784.6	2910.8	2896.6	2831.4	2794.8	2762.2	2774.5
30°	8207.3	6412.0	2982.1	2487.4	2605.5	2729.7	2680.8	2658.4	2632.0	2595.3	2603.5
32.5°	8152.4	6002.8	2562.8	2355.1	2485.4	2505.8	2540.4	2538.3	2513.9	2444.7	2440.6
35°	8168.7	5589.6	2281.9	2247.2	2385.7	2377.5	2442.7	2430.4	2261.5	2165.8	2159.7
37.5°	8298.9	5192.7	2117.0	2161.8	2226.9	2277.8	2334.8	2188.2	2129.2	2068.1	2072.2
40°	8547.3	4824.3	2027.4	2114.9	2131.2	2206.5	2074.2	2072.2	2045.7	1990.8	1988.7
42.5°	8828.2	4512.8	1966.3	2092.5	2070.2	2084.4	1943.9	1960.2	1958.2	1923.6	1913.4
45°	8999.2	4225.8	1917.5	2009.1	2015.2	1872.7	1830.0	1848.3	1858.5	1840.1	1838.1
47.5°	8822.1	3896.0	1866.6	1880.8	1933.8	1777.0	1724.1	1726.1	1744.5	1746.5	1738.4
50°	8325.4	3527.6	1805.5	1770.9	1736.3	1677.3	1628.4	1618.3	1636.6	1654.9	1661.0
52.5°	7684.2	3175.5	1703.8	1650.8	1569.4	1569.4	1547.0	1514.4	1538.9	1563.3	1571.4
55°	7214.0	2914.9	1559.2	1500.2	1410.6	1441.2	1437.1	1408.6	1441.2	1459.5	1465.6
57.5°	6251.2	2342.9	1372.0	1353.6	1278.3	1315.0	1323.1	1286.5	1270.2	1274.3	1280.4
60°	3710.8	1512.4	1237.6	1235.6	1168.4	1211.2	1235.6	1198.9	1150.1	1156.2	1164.3
62.5°	1665.1	1156.2	1068.7	1060.5	1058.5	1113.4	1139.9	1105.3	1036.1	1042.2	1050.3
65°	1048.3	999.5	928.2	928.2	960.8	1007.6	1028.0	999.5	920.1	909.9	918.0
67.5°	973.0	930.2	857.0	842.7	859.0	897.7	899.7	844.8	797.9	789.8	789.8
70°	873.3	840.7	769.4	740.9	734.8	732.8	726.7	712.4	681.9	673.8	677.8
72.5°	722.6	700.2	655.4	624.9	608.6	606.6	582.2	570.0	543.5	539.4	537.4
75°	478.4	484.5	484.5	480.4	466.1	460.0	433.6	421.4	390.8	378.6	376.6
77.5°	282.9	289.0	297.2	299.2	297.2	297.2	272.8	258.5	228.0	211.7	207.6
80°	173.0	177.1	181.2	187.3	179.1	173.0	150.6	136.4	122.1	112.0	109.9
82.5°	112.0	116.0	118.1	122.1	118.1	109.9	91.6	83.5	73.3	65.1	63.1
85°	63.1	65.1	69.2	69.2	63.1	57.0	46.8	40.7	34.6	30.5	30.5
87.5°	22.4	22.4	22.4	24.4	20.4	18.3	12.2	8.1	6.1	6.1	6.1
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)