

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: P640003

Luminaire Tested: GWS-SA5D-722-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640003
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-SA5D-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20074.5 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

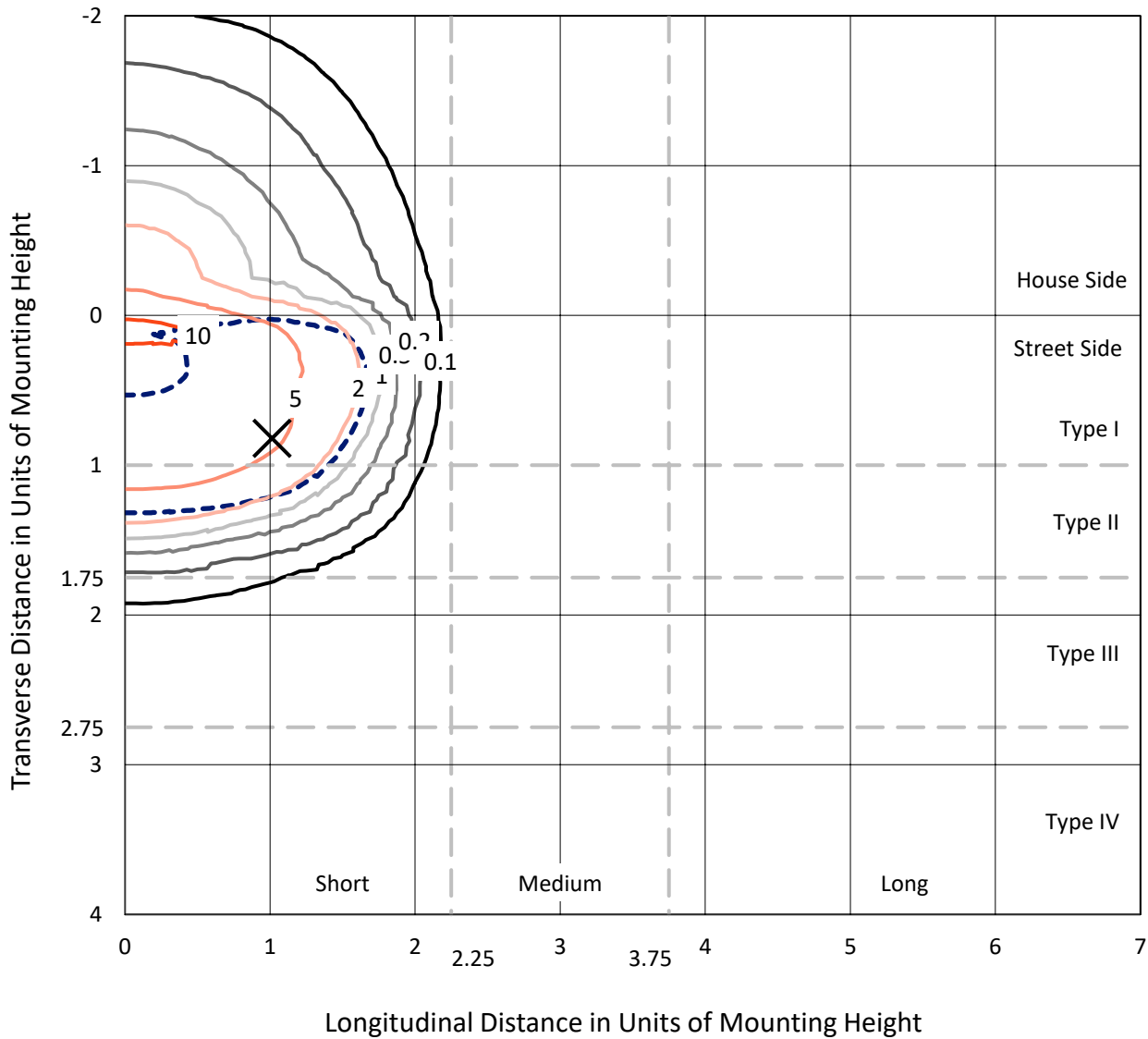
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

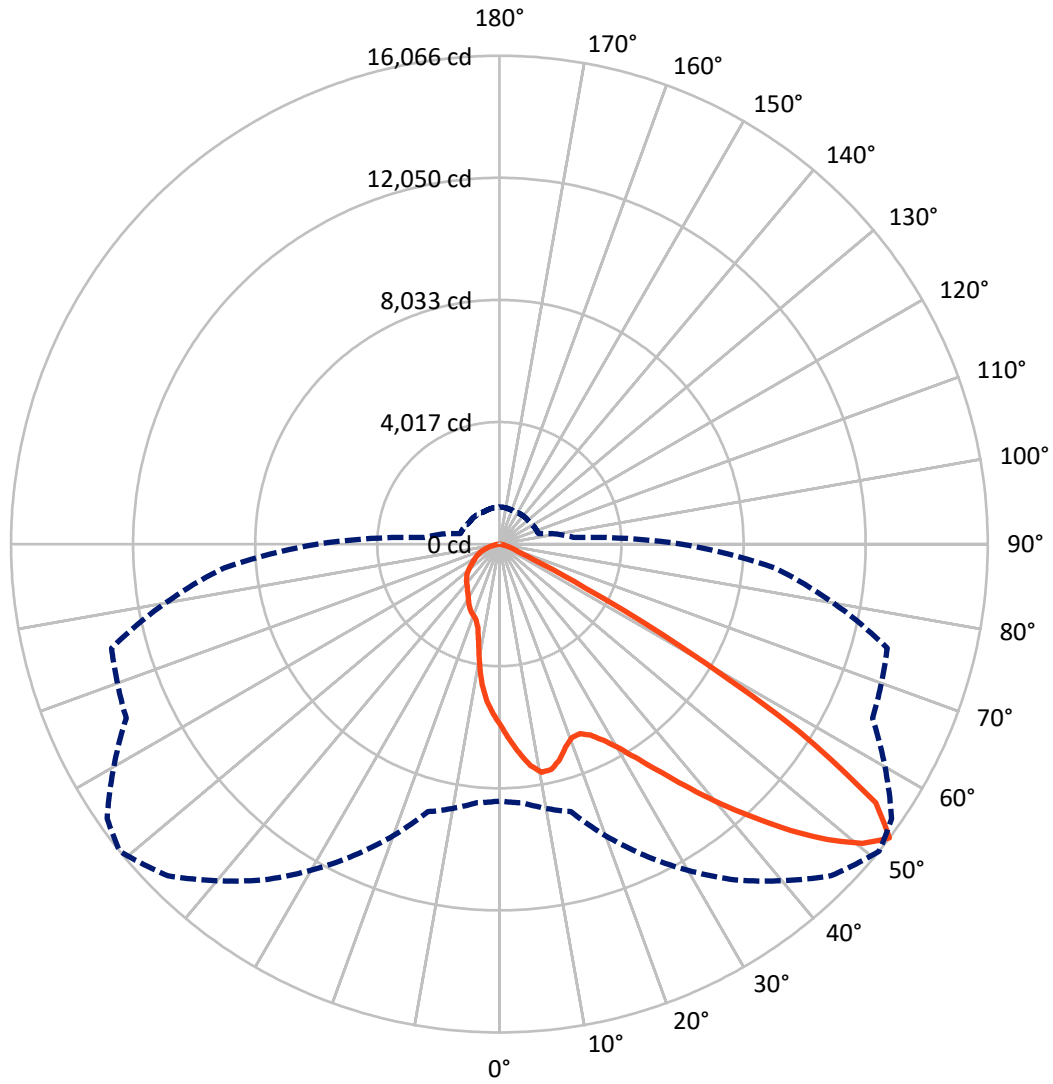
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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	3911.4	0.0	3911.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	16163.1	0.0	16163.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	20074.5	0.0	20074.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.8	2.8
10°-20°	1449.3	7.2
20°-30°	2356.4	11.7
30°-40°	3734.3	18.6
40°-50°	5632.2	28.1
50°-60°	4872.3	24.3
60°-70°	1104.6	5.5
70°-80°	325.7	1.6
80°-90°	41.9	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°	20074.5	100.0
0°-180°	20074.5	100.0

Coefficient of Utilization



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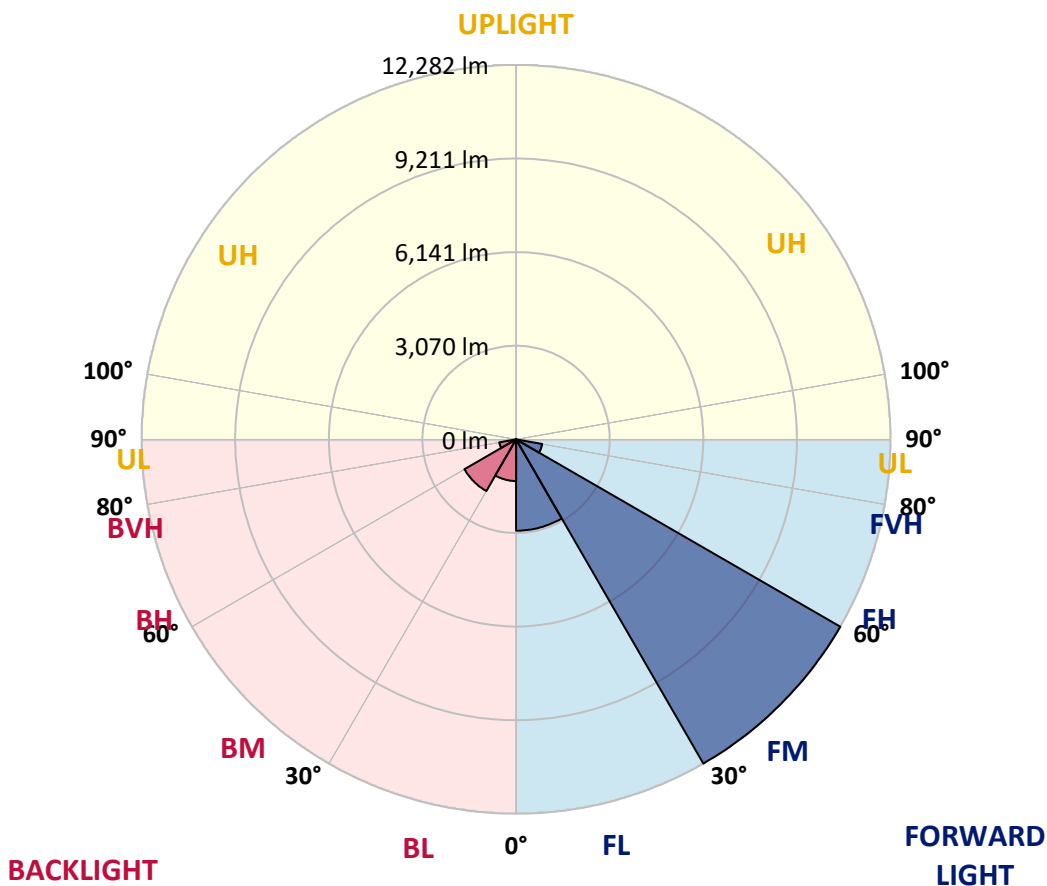
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2996.2	14.9			
FM (30°-60°)	12281.9	61.2			
FH (60°-80°)	869.3	4.3			G1/1800
FVH (80°-90°)	15.8	0.1			G1/100
BL (0°-30°)	1367.2	6.8	B3/2500		
BM (30°-60°)	1957.0	9.7	B2/2500		
BH (60°-80°)	561.0	2.8	B2/1000		G2/1000
BVH (80°-90°)	26.1	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°	5977.2	5977.2	5977.2	5977.2	5977.2	5977.2	5977.2	5977.2	5977.2	5977.2	5977.2
2.5°	6660.9	6698.9	6640.3	6618.0	6581.6	6518.1	6445.1	6424.5	6267.5	6164.4	6048.6
5°	7330.3	7350.9	7303.3	7255.7	7165.3	7052.7	6911.5	6881.4	6595.8	6359.5	6113.6
7.5°	7479.4	7471.5	7512.7	7539.7	7528.6	7484.2	7358.8	7300.2	6959.1	6584.7	6221.5
10°	6889.3	6844.9	6997.2	7178.0	7395.3	7646.0	7631.7	7626.9	7330.3	6887.7	6359.5
12.5°	6107.3	6085.0	6208.8	6435.6	6846.5	7401.7	7609.5	7771.3	7665.0	7176.4	6513.3
15°	5659.9	5652.0	5736.1	5899.5	6226.2	6927.4	7371.5	7692.0	7952.1	7485.8	6676.7
17.5°	5579.0	5583.8	5612.3	5705.9	5940.7	6518.1	7032.1	7479.4	8175.8	7825.2	6881.4
20°	5815.4	5847.1	5797.9	5812.2	5939.1	6370.6	6800.5	7265.3	8318.6	8166.3	7101.9
22.5°	6340.4	6329.3	6221.5	6158.0	6159.6	6461.0	6775.1	7165.3	8412.2	8497.8	7301.7
25°	6935.3	6922.6	6794.1	6652.9	6564.1	6706.9	6957.5	7271.6	8496.2	8800.8	7462.0
27.5°	7638.0	7598.4	7455.6	7274.8	7078.1	7139.9	7309.7	7558.7	8626.3	9099.0	7568.2
30°	8318.6	8364.6	8159.9	7945.8	7738.0	7699.9	7798.3	8023.5	8891.2	9448.0	7695.1
32.5°	9221.2	9205.3	8978.5	8699.3	8402.6	8374.1	8451.8	8658.0	9367.1	9930.2	7888.7
35°	10314.1	10317.3	9995.3	9617.7	9195.8	9119.6	9249.7	9449.6	10076.2	10583.8	8194.8
37.5°	11449.9	11445.2	11164.4	10736.1	10160.3	10052.4	10201.5	10350.6	10962.9	11473.7	8670.7
40°	12246.2	12278.0	12146.3	11921.0	11375.4	11112.0	11243.7	11346.8	11927.4	12520.7	9297.3
42.5°	12698.3	12745.9	12774.5	12909.3	12622.2	12341.4	12293.8	12347.8	12788.8	13493.1	9885.8
45°	12795.1	12858.6	13066.4	13566.0	13677.1	13597.8	13442.3	13312.2	13431.2	14183.1	10271.3
47.5°	12368.4	12479.4	12923.6	13797.6	14446.4	14695.5	14522.6	14324.3	13802.4	14360.8	10231.6
50°	10677.4	10807.5	11808.4	13324.9	14555.9	15463.3	15479.1	15185.7	13758.0	13848.4	9733.5
52.5°	8453.4	8542.2	9114.9	11296.0	13482.0	15431.5	16066.1	15752.0	13543.8	13207.5	9110.1
55°	5052.4	5195.1	5729.7	7452.4	10502.9	13677.1	15028.6	15180.9	13439.1	12669.8	8685.0
57.5°	1705.3	1775.1	2285.9	3291.6	6189.7	10014.3	11611.7	12230.4	12200.2	11848.1	7855.4
60°	812.2	828.0	931.2	1248.4	2477.8	5233.2	6873.4	7587.3	8237.7	8302.7	4887.4
62.5°	618.7	628.2	680.5	748.7	996.2	2205.0	3150.4	3696.1	3948.3	3388.3	1779.8
65°	517.1	525.1	564.7	607.6	677.4	955.0	1208.8	1394.4	1256.3	978.7	848.7
67.5°	431.5	437.8	468.0	514.0	561.6	639.3	671.0	690.0	723.4	812.2	780.5
70°	337.9	344.2	376.0	415.6	461.6	480.6	510.8	529.8	596.4	710.7	707.5
72.5°	260.2	268.1	285.5	310.9	349.0	368.0	401.3	423.5	461.6	553.6	591.7
75°	190.4	195.1	211.0	218.9	223.7	218.9	252.2	277.6	328.4	363.3	372.8
77.5°	77.7	87.2	84.1	84.1	99.9	120.6	138.0	153.9	188.8	209.4	211.0
80°	31.7	34.9	41.2	46.0	55.5	71.4	82.5	88.8	104.7	117.4	126.9
82.5°	19.0	20.6	23.8	25.4	31.7	41.2	47.6	52.3	65.0	77.7	82.5
85°	9.5	9.5	11.1	12.7	15.9	19.0	22.2	25.4	33.3	41.2	46.0
87.5°	1.6	1.6	1.6	3.2	4.8	6.3	7.9	9.5	11.1	12.7	15.9
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°	5977.2	5977.2	5977.2	5977.2	5977.2	5977.2	5977.2	5977.2	5977.2	5977.2	5977.2
2.5°	5980.4	5894.7	5794.8	5715.4	5623.4	5555.2	5458.5	5398.2	5341.1	5293.5	5258.6
5°	5986.7	5842.3	5634.5	5450.5	5260.2	5079.3	4893.7	4743.0	4608.2	4495.6	4486.1
7.5°	6023.2	5815.4	5490.2	5168.2	4797.0	4438.5	4080.0	3788.1	3566.0	3450.2	3426.4
10°	6085.0	5812.2	5342.7	4828.7	4195.8	3618.4	3193.2	2971.1	2842.7	2796.6	2780.8
12.5°	6150.1	5804.3	5153.9	4349.6	3470.8	2964.8	2731.6	2704.6	2728.4	2731.6	2730.0
15°	6229.4	5799.5	4915.9	3788.1	2941.0	2661.8	2677.7	2734.8	2790.3	2803.0	2803.0
17.5°	6326.2	5788.4	4592.3	3239.2	2609.5	2603.1	2687.2	2763.3	2815.7	2825.2	2825.2
20°	6427.7	5759.9	4194.2	2791.9	2474.6	2566.6	2657.1	2715.7	2752.2	2764.9	2766.5
22.5°	6497.5	5683.7	3735.7	2460.4	2390.6	2496.8	2561.9	2622.2	2622.2	2590.4	2580.9
25°	6511.8	5520.3	3239.2	2233.5	2290.6	2389.0	2455.6	2420.7	2355.7	2330.3	2328.7
27.5°	6459.4	5282.4	2749.1	2071.7	2170.1	2268.4	2257.3	2206.5	2178.0	2152.6	2162.1
30°	6396.0	4996.8	2323.9	1938.5	2030.5	2127.2	2089.2	2071.7	2051.1	2022.5	2028.9
32.5°	6353.1	4678.0	1997.2	1835.3	1936.9	1952.7	1979.7	1978.1	1959.1	1905.1	1902.0
35°	6365.8	4356.0	1778.2	1751.3	1859.1	1852.8	1903.6	1894.0	1762.4	1687.8	1683.1
37.5°	6467.3	4046.7	1649.8	1684.7	1735.4	1775.1	1819.5	1705.3	1659.3	1611.7	1614.9
40°	6660.9	3759.5	1580.0	1648.2	1660.9	1719.5	1616.4	1614.9	1594.2	1551.4	1549.8
42.5°	6879.8	3516.8	1532.4	1630.7	1613.3	1624.4	1514.9	1527.6	1526.0	1499.1	1491.1
45°	7013.0	3293.2	1494.3	1565.7	1570.4	1459.4	1426.1	1440.4	1448.3	1434.0	1432.4
47.5°	6875.0	3036.2	1454.6	1465.7	1507.0	1384.8	1343.6	1345.2	1359.5	1361.0	1354.7
50°	6488.0	2749.1	1407.0	1380.1	1353.1	1307.1	1269.0	1261.1	1275.4	1289.7	1294.4
52.5°	5988.3	2474.6	1327.7	1286.5	1223.0	1223.0	1205.6	1180.2	1199.2	1218.3	1224.6
55°	5621.8	2271.6	1215.1	1169.1	1099.3	1123.1	1119.9	1097.7	1123.1	1137.4	1142.1
57.5°	4871.5	1825.8	1069.2	1054.9	996.2	1024.8	1031.1	1002.5	989.9	993.0	997.8
60°	2891.8	1178.6	964.5	962.9	910.5	943.8	962.9	934.3	896.3	901.0	907.4
62.5°	1297.6	901.0	832.8	826.5	824.9	867.7	888.3	861.4	807.4	812.2	818.5
65°	816.9	778.9	723.4	723.4	748.7	785.2	801.1	778.9	717.0	709.1	715.4
67.5°	758.3	724.9	667.8	656.7	669.4	699.6	701.1	658.3	621.8	615.5	615.5
70°	680.5	655.1	599.6	577.4	572.7	571.1	566.3	555.2	531.4	525.1	528.2
72.5°	563.1	545.7	510.8	487.0	474.3	472.7	453.7	444.2	423.5	420.4	418.8
75°	372.8	377.5	377.5	374.4	363.3	358.5	337.9	328.4	304.6	295.1	293.5
77.5°	220.5	225.3	231.6	233.2	231.6	231.6	212.6	201.5	177.7	165.0	161.8
80°	134.8	138.0	141.2	145.9	139.6	134.8	117.4	106.3	95.2	87.2	85.7
82.5°	87.2	90.4	92.0	95.2	92.0	85.7	71.4	65.0	57.1	50.8	49.2
85°	49.2	50.8	53.9	53.9	49.2	44.4	36.5	31.7	27.0	23.8	23.8
87.5°	17.4	17.4	17.4	19.0	15.9	14.3	9.5	6.3	4.8	4.8	4.8
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)