

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: P639546

Luminaire Tested: GWS-SA5C-722-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-722-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY 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: 15378.1 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

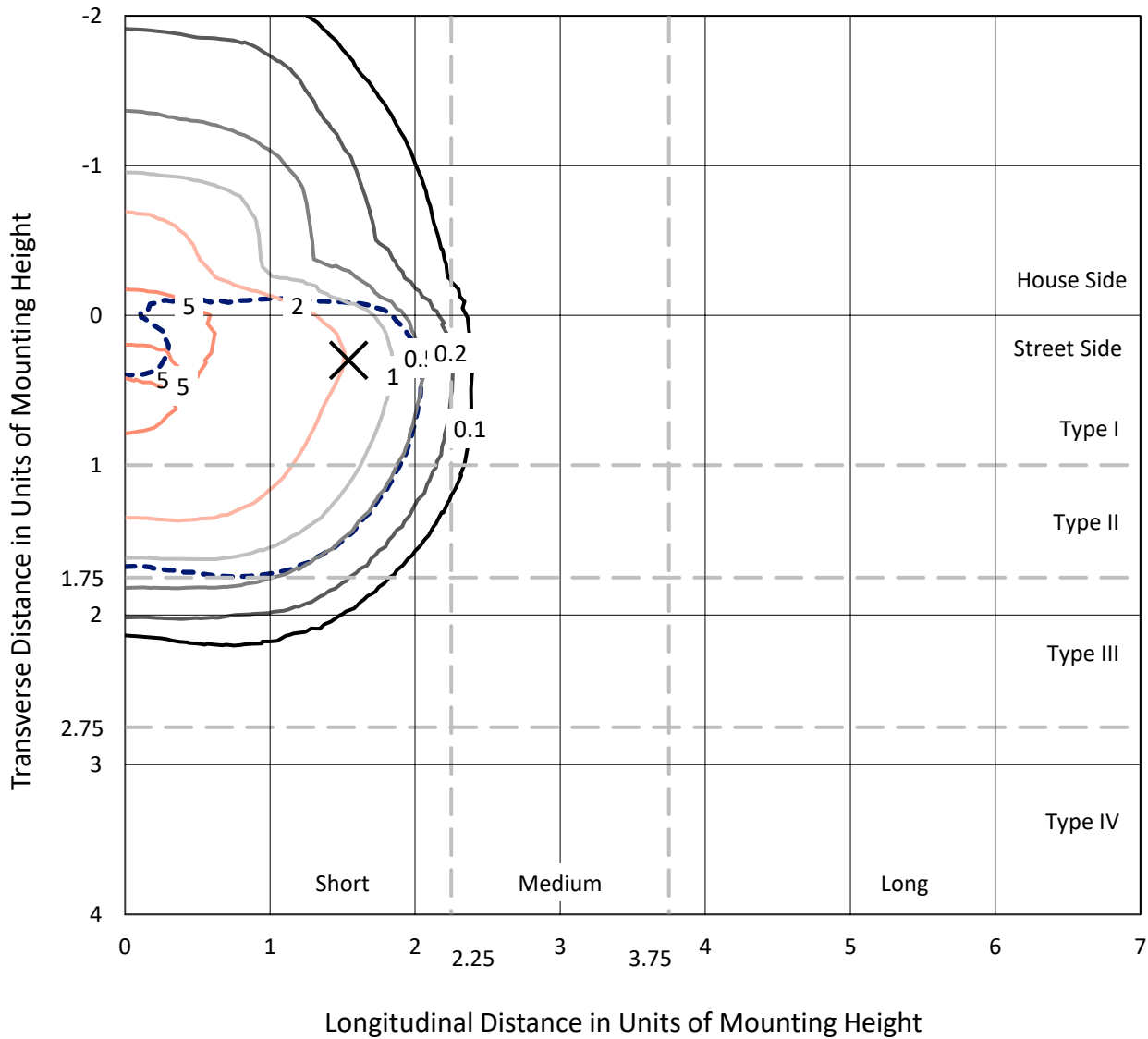
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

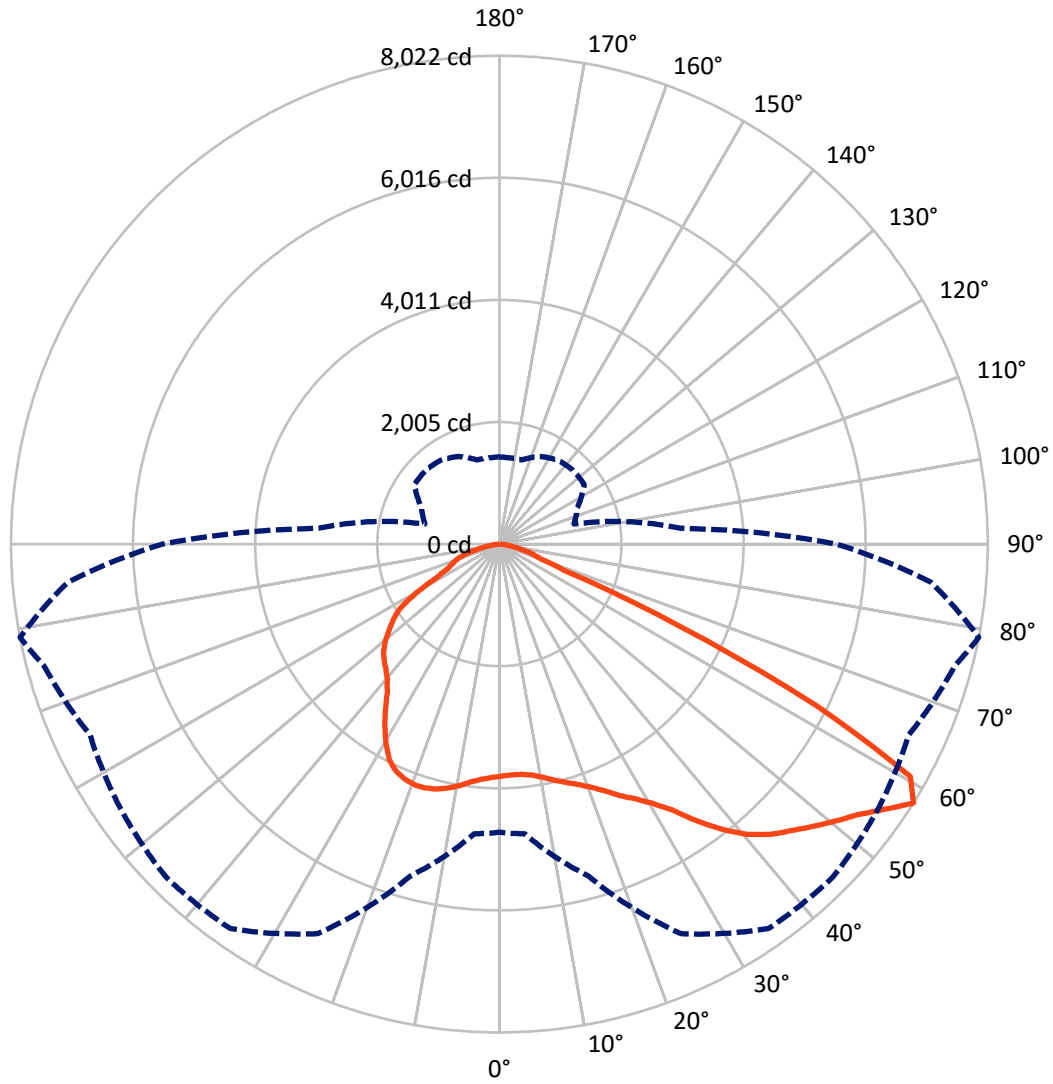
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4571.2	0.0	4571.2
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	10806.9	0.0	10806.9
	% Fixture	70.3	0.0	70.3
Total	Lumens	15378.1	0.0	15378.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.9	2.3
10°-20°	980.8	6.4
20°-30°	1662.5	10.8
30°-40°	2544.7	16.5
40°-50°	3393.1	22.1
50°-60°	3918.8	25.5
60°-70°	2036.3	13.2
70°-80°	432.9	2.8
80°-90°	56.1	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°	15378.1	100.0
0°-180°	15378.1	100.0

Coefficient of Utilization



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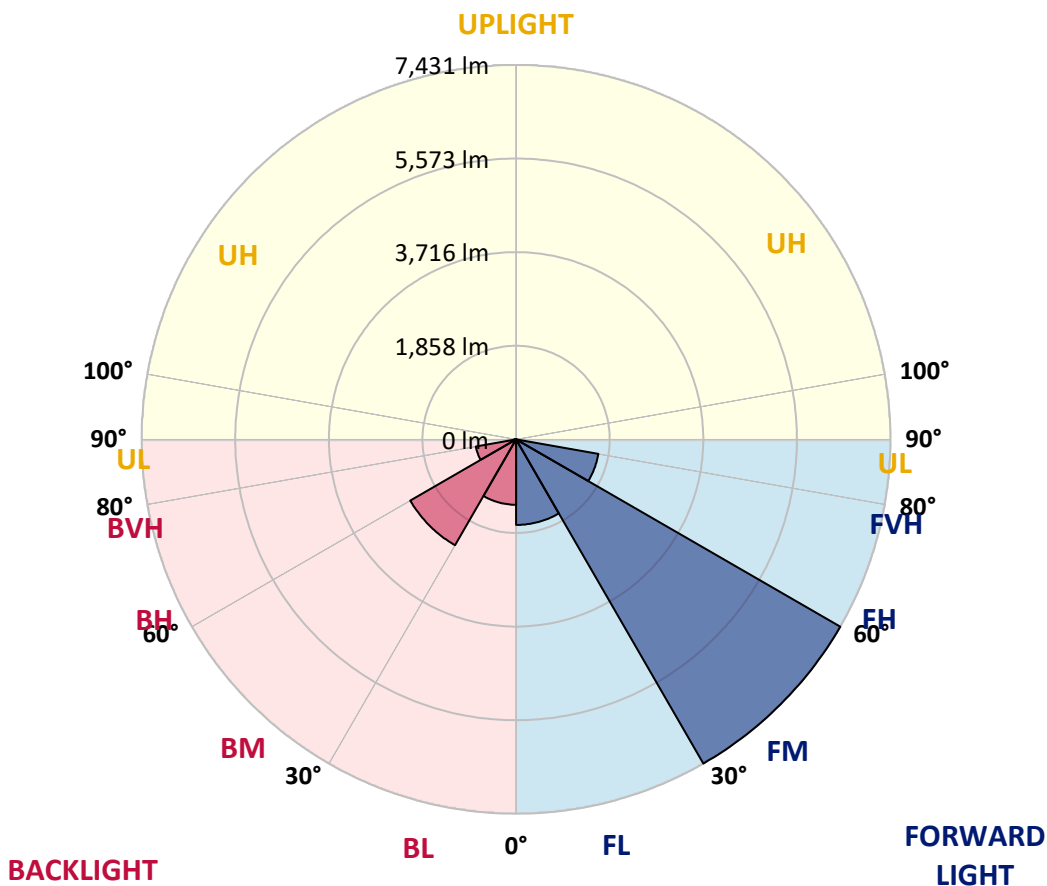
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1698.1	11.0			
FM (30°-60°)	7431.1	48.3			
FH (60°-80°)	1658.1	10.8			G1/1800
FVH (80°-90°)	19.5	0.1			G1/100
BL (0°-30°)	1298.2	8.4	B3/2500		
BM (30°-60°)	2425.4	15.8	B2/2500		
BH (60°-80°)	811.1	5.3	B2/1000		G2/1000
BVH (80°-90°)	36.5	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0
2.5°	3637.5	3630.0	3632.5	3642.6	3680.3	3707.9	3736.9	3763.3	3788.4	3796.0	3802.2
5°	3508.0	3494.2	3498.0	3514.3	3558.3	3604.8	3656.4	3719.3	3779.6	3799.7	3826.1
7.5°	3416.2	3413.7	3420.0	3445.2	3491.7	3535.7	3602.3	3691.6	3796.0	3829.9	3876.4
10°	3294.3	3289.2	3314.4	3365.9	3442.6	3513.1	3592.3	3697.9	3843.7	3894.0	3965.7
12.5°	3197.5	3194.9	3221.3	3293.0	3391.1	3503.0	3612.4	3730.6	3907.9	3977.0	4065.0
15°	3254.0	3242.7	3244.0	3294.3	3382.3	3514.3	3662.7	3789.7	3972.0	4060.0	4173.2
17.5°	3418.8	3398.6	3383.5	3392.3	3442.6	3579.7	3739.4	3868.9	4046.2	4149.3	4287.6
20°	3646.3	3635.0	3593.5	3565.9	3577.2	3697.9	3860.1	3980.8	4143.0	4258.7	4407.0
22.5°	3951.9	3924.2	3867.6	3823.6	3789.7	3884.0	4033.6	4138.0	4277.5	4398.2	4552.9
25°	4330.3	4290.1	4200.8	4131.7	4058.7	4155.6	4288.8	4368.1	4462.4	4574.3	4721.4
27.5°	4716.3	4682.4	4583.1	4490.0	4399.5	4459.8	4618.3	4663.5	4653.5	4735.2	4860.9
30°	5127.5	5084.8	4990.4	4889.9	4772.9	4811.9	4954.0	4976.6	4869.7	4937.6	5023.1
32.5°	5561.3	5519.8	5438.1	5321.1	5189.1	5204.2	5243.2	5264.6	5162.7	5201.7	5267.1
35°	6002.6	5963.6	5880.7	5765.0	5668.2	5576.4	5478.3	5563.8	5504.7	5580.1	5575.1
37.5°	6406.2	6367.3	6315.7	6226.4	6060.5	5879.4	5653.1	5758.7	5850.5	5946.0	5929.7
40°	6679.1	6652.7	6665.2	6651.4	6437.7	6079.3	5738.6	5854.3	6104.5	6267.9	6259.1
42.5°	6914.2	6887.8	6960.7	7013.5	6762.1	6264.2	5780.1	5890.7	6266.7	6521.9	6509.3
45°	7018.6	7011.0	7131.7	7299.0	7058.8	6460.3	5886.9	5966.2	6389.9	6716.8	6669.0
47.5°	6894.1	6920.5	7158.1	7441.0	7305.2	6692.9	6105.7	6125.8	6550.8	6928.0	6793.5
50°	6646.4	6704.2	7024.9	7444.8	7485.0	6955.7	6408.7	6358.5	6767.1	7153.1	6858.9
52.5°	6285.5	6345.9	6868.9	7415.9	7588.1	7260.0	6812.4	6740.7	7039.9	7378.2	6870.2
55°	5456.9	5538.7	6511.9	7350.5	7688.7	7536.6	7267.5	7121.7	7392.0	7687.5	6982.1
57.5°	4733.9	4776.7	5641.8	7060.1	7708.9	7740.3	7591.9	7418.4	7741.5	8021.9	7107.8
60°	3474.1	3484.1	4262.4	5841.7	7091.5	7622.1	7565.5	7307.8	7575.6	7754.1	6532.0
62.5°	1962.7	1964.0	2585.1	3899.1	5297.2	6212.6	6247.8	6020.2	5795.2	5848.0	4546.6
65°	736.8	806.0	1180.7	1916.2	3054.1	3667.7	3813.6	3866.4	3491.7	3259.1	2438.0
67.5°	492.9	509.2	689.0	985.8	1359.2	1569.2	1755.3	1760.3	1287.5	1148.0	960.6
70°	375.9	392.3	541.9	705.4	689.0	636.2	687.8	668.9	691.5	710.4	730.5
72.5°	280.4	296.7	420.0	497.9	413.7	407.4	461.4	513.0	560.8	580.9	612.3
75°	186.1	198.7	282.9	266.6	228.8	270.3	337.0	388.5	416.2	440.1	464.0
77.5°	118.2	127.0	150.9	122.0	127.0	158.4	196.1	242.7	269.1	293.0	305.5
80°	54.1	52.8	51.6	57.8	71.7	93.0	118.2	145.9	166.0	176.0	183.6
82.5°	21.4	23.9	26.4	31.4	39.0	50.3	66.6	85.5	101.8	104.4	110.6
85°	8.8	10.1	11.3	13.8	17.6	22.6	27.7	39.0	49.0	52.8	56.6
87.5°	0.0	0.0	0.0	0.0	1.3	2.5	3.8	6.3	11.3	12.6	13.8
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°	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0	3811.0
2.5°	3836.2	3819.9	3847.5	3866.4	3884.0	3865.1	3858.8	3842.5	3840.0	3840.0	3848.8
5°	3871.4	3860.1	3889.0	3900.3	3899.1	3857.6	3832.4	3799.7	3783.4	3783.4	3785.9
7.5°	3934.3	3928.0	3944.3	3926.7	3886.5	3802.2	3719.3	3650.1	3603.6	3579.7	3587.2
10°	4038.6	4031.1	4017.3	3951.9	3836.2	3661.4	3491.7	3365.9	3290.5	3247.8	3250.3
12.5°	4140.5	4127.9	4078.9	3934.3	3696.6	3418.8	3196.2	3055.4	2972.4	2922.1	2910.8
15°	4252.4	4219.7	4114.1	3843.7	3469.0	3122.0	2889.4	2737.3	2648.0	2617.8	2616.6
17.5°	4359.3	4301.4	4110.3	3682.8	3196.2	2811.4	2577.6	2483.3	2468.2	2482.0	2485.8
20°	4467.4	4374.3	4068.8	3460.2	2871.8	2502.1	2381.4	2420.4	2477.0	2514.7	2523.5
22.5°	4579.3	4434.7	3974.5	3173.6	2529.8	2293.4	2343.7	2429.2	2499.6	2549.9	2554.9
25°	4705.0	4491.3	3833.7	2822.8	2255.7	2235.6	2334.9	2425.4	2500.9	2558.7	2568.8
27.5°	4776.7	4492.5	3636.3	2461.9	2130.0	2212.9	2313.5	2399.0	2474.5	2537.3	2548.7
30°	4847.1	4458.6	3323.2	2168.9	2093.5	2186.5	2277.1	2356.3	2428.0	2489.6	2503.4
32.5°	4946.4	4427.2	2962.3	2000.5	2072.1	2161.4	2235.6	2306.0	2361.3	2389.0	2396.5
35°	5069.7	4386.9	2578.8	1927.5	2058.3	2141.3	2206.7	2244.4	2172.7	2157.6	2174.0
37.5°	5241.9	4349.2	2196.6	1896.1	2049.5	2133.7	2191.6	2094.8	2006.7	1971.5	1984.1
40°	5428.0	4327.8	1937.6	1870.9	2053.3	2141.3	2128.7	1985.4	1858.4	1784.2	1781.7
42.5°	5586.4	4295.1	1771.6	1854.6	2063.3	2170.2	2043.2	1888.6	1699.9	1655.9	1657.2
45°	5693.3	4212.1	1683.6	1837.0	2072.1	2176.5	2003.0	1755.3	1620.7	1593.1	1591.8
47.5°	5737.3	4061.3	1627.0	1809.3	2070.9	2124.9	1921.2	1699.9	1565.4	1557.9	1562.9
50°	5708.4	3813.6	1569.2	1755.3	2040.7	2070.9	1826.9	1650.9	1527.7	1569.2	1599.4
52.5°	5601.5	3492.9	1500.0	1681.1	1986.6	2009.3	1779.2	1620.7	1500.0	1555.4	1579.2
55°	5573.9	3232.7	1412.0	1584.3	1906.2	1899.9	1728.9	1605.6	1481.2	1459.8	1463.6
57.5°	5537.4	2978.7	1266.2	1410.8	1702.5	1712.5	1681.1	1588.0	1432.1	1425.8	1432.1
60°	4810.6	2283.4	1129.1	1217.1	1398.2	1452.2	1627.0	1555.4	1352.9	1326.5	1325.3
62.5°	3142.1	1383.1	1004.6	1061.2	1139.2	1202.0	1483.7	1461.0	1266.2	1249.8	1261.1
65°	1689.9	985.8	914.1	948.0	990.8	1038.6	1229.7	1301.4	1144.2	1086.4	1087.6
67.5°	863.8	838.7	846.2	870.1	902.8	926.7	992.1	1054.9	975.7	926.7	925.4
70°	739.3	759.4	770.8	784.6	806.0	802.2	808.5	819.8	813.5	789.6	788.4
72.5°	629.9	661.4	663.9	666.4	673.9	656.3	645.0	626.2	627.4	631.2	632.5
75°	479.1	509.2	516.8	513.0	520.5	497.9	482.8	464.0	441.3	437.6	440.1
77.5°	311.8	335.7	347.0	344.5	348.3	330.7	323.1	303.0	276.6	266.6	266.6
80°	188.6	202.4	211.2	213.8	217.5	204.9	192.4	174.8	163.5	152.1	152.1
82.5°	114.4	123.2	129.5	129.5	133.3	119.4	109.4	96.8	91.8	81.7	81.7
85°	57.8	64.1	66.6	65.4	62.9	51.6	47.8	41.5	39.0	33.9	33.9
87.5°	13.8	17.6	17.6	12.6	12.6	6.3	3.8	1.3	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)