

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: P639216

Luminaire Tested: GWS-SA5B-735-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639216
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-SA5B-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15353.8 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

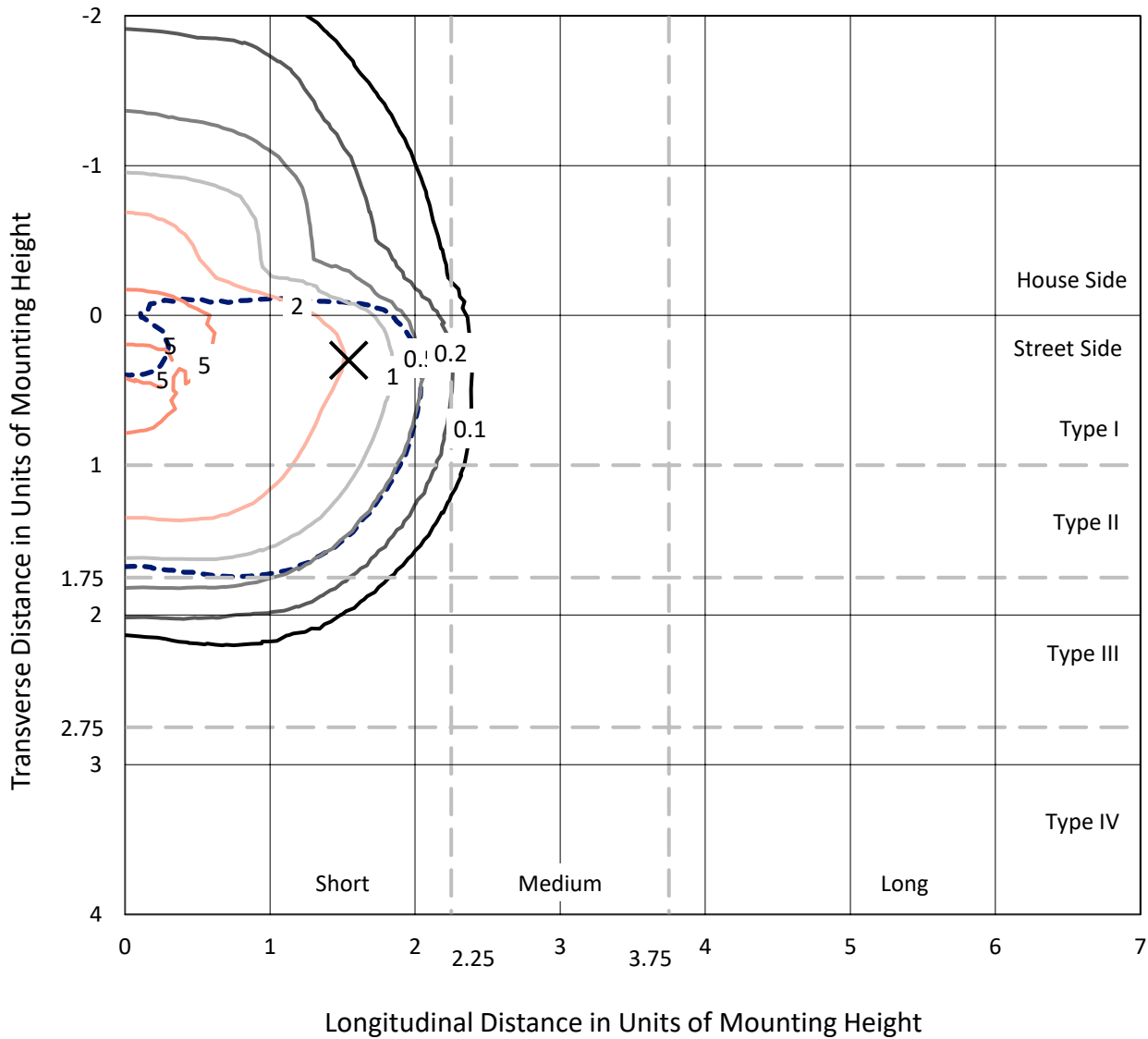
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

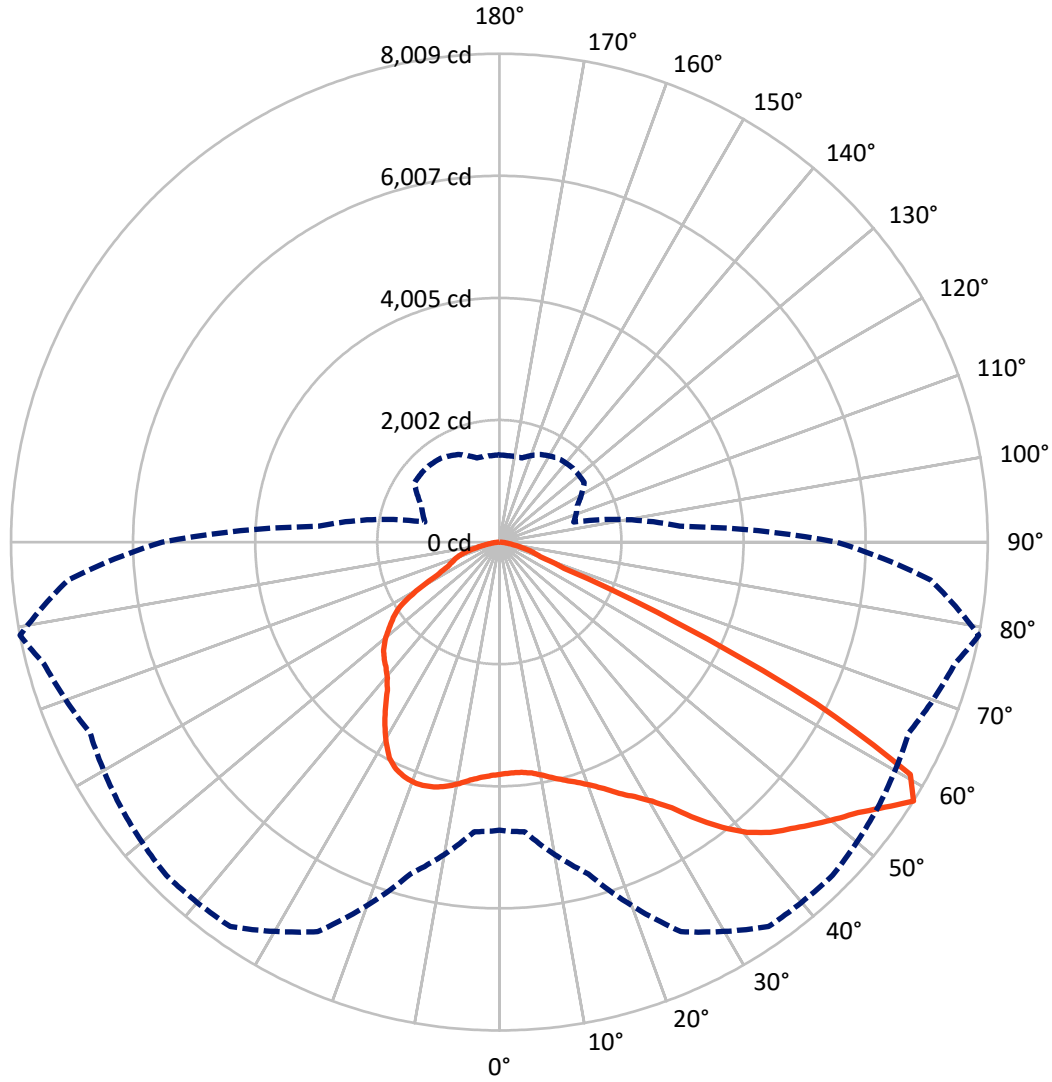
✕ Max cd
 - - - 1/2 Max cd



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	4564.0	0.0	4564.0
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	10789.8	0.0	10789.8
	% Fixture	70.3	0.0	70.3
Total	Lumens	15353.8	0.0	15353.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.4	2.3
10°-20°	979.3	6.4
20°-30°	1659.9	10.8
30°-40°	2540.7	16.5
40°-50°	3387.7	22.1
50°-60°	3912.6	25.5
60°-70°	2033.1	13.2
70°-80°	432.2	2.8
80°-90°	56.0	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°	15353.8	100.0
0°-180°	15353.8	100.0

Coefficient of Utilization



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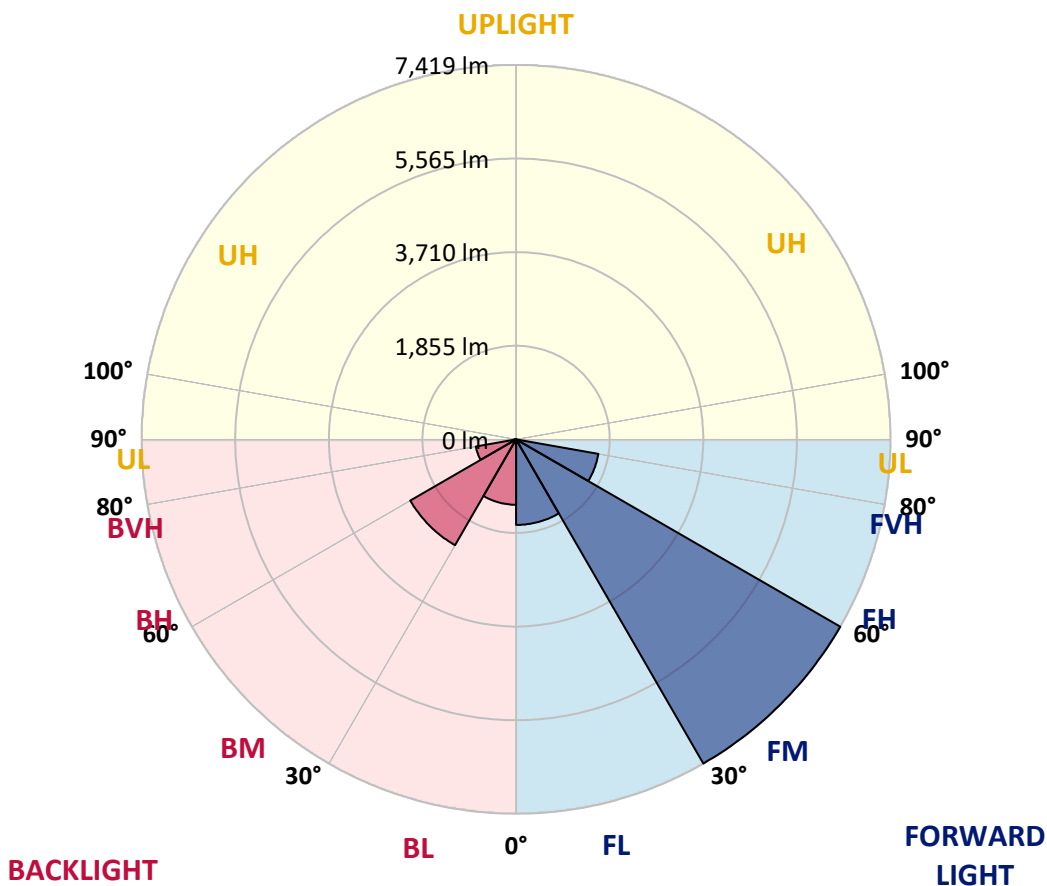
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1695.4	11.0			
FM (30°-60°)	7419.4	48.3			
FH (60°-80°)	1655.5	10.8			G1/1800
FVH (80°-90°)	19.5	0.1			G1/100
BL (0°-30°)	1296.1	8.4	B3/2500		
BM (30°-60°)	2421.6	15.8	B2/2500		
BH (60°-80°)	809.8	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°	3805.0	3805.0	3805.0	3805.0	3805.0	3805.0	3805.0	3805.0	3805.0	3805.0	3805.0
2.5°	3631.8	3624.3	3626.8	3636.8	3674.5	3702.1	3731.0	3757.3	3782.4	3790.0	3796.2
5°	3502.5	3488.7	3492.4	3508.8	3552.7	3599.1	3650.6	3713.4	3773.6	3793.7	3820.1
7.5°	3410.8	3408.3	3414.6	3439.7	3486.2	3530.1	3596.6	3685.8	3790.0	3823.9	3870.3
10°	3289.1	3284.0	3309.2	3360.6	3437.2	3507.5	3586.6	3692.0	3837.7	3887.9	3959.4
12.5°	3192.4	3189.9	3216.3	3287.8	3385.7	3497.5	3606.7	3724.7	3901.7	3970.7	4058.6
15°	3248.9	3237.6	3238.9	3289.1	3376.9	3508.8	3656.9	3783.7	3965.7	4053.6	4166.6
17.5°	3413.4	3393.3	3378.2	3387.0	3437.2	3574.0	3733.5	3862.8	4039.8	4142.7	4280.8
20°	3640.6	3629.3	3587.8	3560.2	3571.5	3692.0	3854.0	3974.5	4136.4	4251.9	4400.1
22.5°	3945.6	3918.0	3861.5	3817.6	3783.7	3877.8	4027.2	4131.4	4270.8	4391.3	4545.7
25°	4323.5	4283.3	4194.2	4125.1	4052.3	4149.0	4282.1	4361.2	4455.3	4567.0	4713.9
27.5°	4708.9	4675.0	4575.8	4482.9	4392.5	4452.8	4611.0	4656.2	4646.1	4727.7	4853.3
30°	5119.4	5076.7	4982.6	4882.1	4765.4	4804.3	4946.2	4968.8	4862.0	4929.8	5015.2
32.5°	5552.5	5511.1	5429.5	5312.7	5180.9	5196.0	5234.9	5256.2	5154.5	5193.5	5258.7
35°	5993.1	5954.2	5871.4	5755.9	5659.2	5567.6	5469.6	5555.0	5496.0	5571.3	5566.3
37.5°	6396.1	6357.2	6305.7	6216.6	6050.9	5870.1	5644.1	5749.6	5841.2	5936.6	5920.3
40°	6668.5	6642.2	6654.7	6640.9	6427.5	6069.7	5729.5	5845.0	6094.8	6258.0	6249.2
42.5°	6903.3	6876.9	6949.7	7002.5	6751.4	6254.3	5770.9	5881.4	6256.8	6511.6	6499.1
45°	7007.5	6999.9	7120.5	7287.4	7047.6	6450.1	5877.6	5956.7	6379.8	6706.2	6658.5
47.5°	6883.2	6909.6	7146.8	7429.3	7293.7	6682.3	6096.1	6116.2	6540.5	6917.1	6782.8
50°	6635.9	6693.6	7013.8	7433.0	7473.2	6944.7	6398.6	6348.4	6756.4	7141.8	6848.0
52.5°	6275.6	6335.9	6858.1	7404.2	7576.2	7248.5	6801.6	6730.0	7028.8	7366.5	6859.3
55°	5448.3	5529.9	6501.6	7338.9	7676.6	7524.7	7256.0	7110.4	7380.3	7675.3	6971.1
57.5°	4726.5	4769.2	5632.8	7048.9	7696.7	7728.1	7579.9	7406.7	7729.3	8009.3	7096.6
60°	3468.6	3478.6	4255.7	5832.4	7080.3	7610.1	7553.6	7296.2	7563.6	7741.9	6521.6
62.5°	1959.6	1960.9	2581.0	3892.9	5288.9	6202.8	6237.9	6010.7	5786.0	5838.7	4539.4
65°	735.6	804.7	1178.8	1913.2	3049.3	3661.9	3807.5	3860.3	3486.2	3253.9	2434.2
67.5°	492.1	508.4	687.9	984.2	1357.1	1566.7	1752.5	1757.5	1285.5	1146.2	959.1
70°	375.4	391.7	541.1	704.3	687.9	635.2	686.7	667.9	690.5	709.3	729.4
72.5°	279.9	296.3	419.3	497.1	413.0	406.7	460.7	512.2	559.9	580.0	611.4
75°	185.8	198.3	282.5	266.1	228.5	269.9	336.4	387.9	415.5	439.4	463.2
77.5°	118.0	126.8	150.6	121.8	126.8	158.2	195.8	242.3	268.6	292.5	305.1
80°	54.0	52.7	51.5	57.7	71.6	92.9	118.0	145.6	165.7	175.8	183.3
82.5°	21.3	23.9	26.4	31.4	38.9	50.2	66.5	85.4	101.7	104.2	110.5
85°	8.8	10.0	11.3	13.8	17.6	22.6	27.6	38.9	49.0	52.7	56.5
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°	3805.0	3805.0	3805.0	3805.0	3805.0	3805.0	3805.0	3805.0	3805.0	3805.0	3805.0
2.5°	3830.1	3813.8	3841.4	3860.3	3877.8	3859.0	3852.7	3836.4	3833.9	3833.9	3842.7
5°	3865.3	3854.0	3882.9	3894.2	3892.9	3851.5	3826.4	3793.7	3777.4	3777.4	3779.9
7.5°	3928.1	3921.8	3938.1	3920.5	3880.3	3796.2	3713.4	3644.3	3597.9	3574.0	3581.6
10°	4032.2	4024.7	4010.9	3945.6	3830.1	3655.6	3486.2	3360.6	3285.3	3242.6	3245.1
12.5°	4133.9	4121.4	4072.4	3928.1	3690.8	3413.4	3191.2	3050.5	2967.7	2917.5	2906.2
15°	4245.7	4213.0	4107.6	3837.7	3463.6	3117.1	2884.8	2732.9	2643.8	2613.7	2612.4
17.5°	4352.4	4294.6	4103.8	3677.0	3191.2	2807.0	2573.5	2479.4	2464.3	2478.1	2481.9
20°	4460.3	4367.4	4062.4	3454.8	2867.3	2498.2	2377.7	2416.6	2473.1	2510.7	2519.5
22.5°	4572.1	4427.7	3968.2	3168.6	2525.8	2289.8	2340.0	2425.4	2495.7	2545.9	2550.9
25°	4697.6	4484.2	3827.6	2818.3	2252.1	2232.0	2331.2	2421.6	2496.9	2554.7	2564.7
27.5°	4769.2	4485.4	3630.5	2458.0	2126.6	2209.5	2309.9	2395.2	2470.6	2533.3	2544.6
30°	4839.5	4451.5	3317.9	2165.5	2090.2	2183.1	2273.5	2352.6	2424.1	2485.6	2499.4
32.5°	4938.6	4420.2	2957.7	1997.3	2068.8	2158.0	2232.0	2302.3	2357.6	2385.2	2392.7
35°	5061.7	4380.0	2574.8	1924.5	2055.0	2137.9	2203.2	2240.8	2169.3	2154.2	2170.5
37.5°	5233.6	4342.3	2193.1	1893.1	2046.3	2130.4	2188.1	2091.4	2003.6	1968.4	1981.0
40°	5419.4	4321.0	1934.5	1868.0	2050.0	2137.9	2125.3	1982.2	1855.4	1781.4	1778.9
42.5°	5577.6	4288.3	1768.8	1851.7	2060.1	2166.8	2040.0	1885.6	1697.3	1653.3	1654.6
45°	5684.3	4205.5	1680.9	1834.1	2068.8	2173.0	1999.8	1752.5	1618.2	1590.6	1589.3
47.5°	5728.3	4054.8	1624.4	1806.5	2067.6	2121.6	1918.2	1697.3	1562.9	1555.4	1560.4
50°	5699.4	3807.5	1566.7	1752.5	2037.5	2067.6	1824.1	1648.3	1525.3	1566.7	1596.8
52.5°	5592.7	3487.4	1497.7	1678.4	1983.5	2006.1	1776.3	1618.2	1497.7	1552.9	1576.7
55°	5565.1	3227.6	1409.8	1581.8	1903.1	1896.9	1726.1	1603.1	1478.8	1457.5	1461.3
57.5°	5528.6	2974.0	1264.2	1408.5	1699.8	1709.8	1678.4	1585.5	1429.9	1423.6	1429.9
60°	4803.0	2279.8	1127.3	1215.2	1396.0	1450.0	1624.4	1552.9	1350.8	1324.4	1323.2
62.5°	3137.2	1380.9	1003.0	1059.5	1137.4	1200.1	1481.3	1458.7	1264.2	1247.8	1259.1
65°	1687.2	984.2	912.7	946.5	989.2	1036.9	1227.8	1299.3	1142.4	1084.6	1085.9
67.5°	862.4	837.3	844.9	868.7	901.4	925.2	990.5	1053.3	974.2	925.2	924.0
70°	738.2	758.2	769.5	783.4	804.7	800.9	807.2	818.5	812.2	788.4	787.1
72.5°	628.9	660.3	662.8	665.3	672.9	655.3	644.0	625.2	626.4	630.2	631.5
75°	478.3	508.4	516.0	512.2	519.7	497.1	482.1	463.2	440.6	436.9	439.4
77.5°	311.3	335.2	346.5	344.0	347.7	330.2	322.6	302.5	276.2	266.1	266.1
80°	188.3	202.1	210.9	213.4	217.2	204.6	192.1	174.5	163.2	151.9	151.9
82.5°	114.2	123.0	129.3	129.3	133.1	119.3	109.2	96.7	91.6	81.6	81.6
85°	57.7	64.0	66.5	65.3	62.8	51.5	47.7	41.4	38.9	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)