

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: P640204

Luminaire Tested: GWS-SA5D-735-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-735-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29649.4 lumens
Efficiency: N/A
Efficacy: 144.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

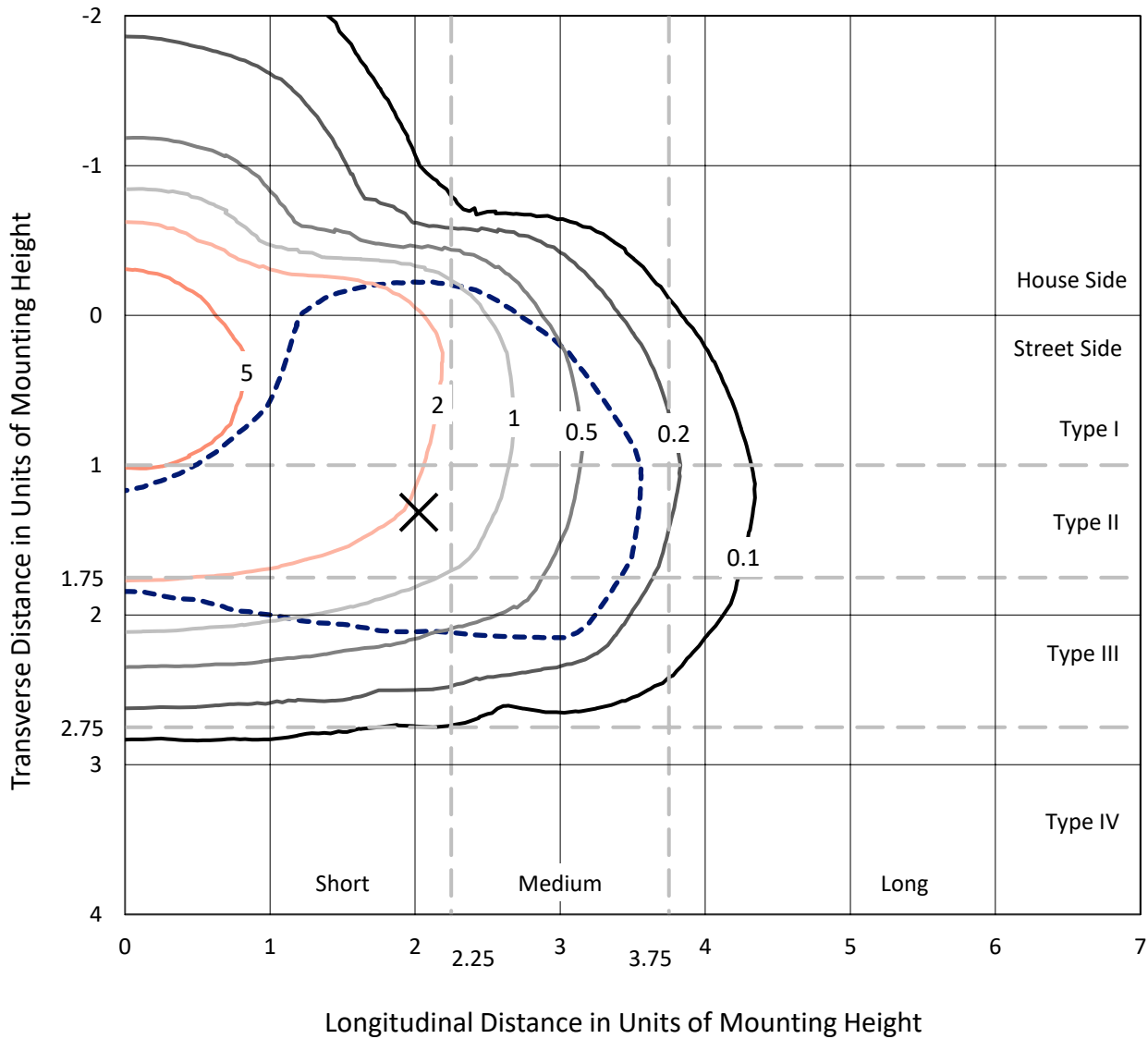


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Iso-Footcandle Lines of Horizontal Illumination

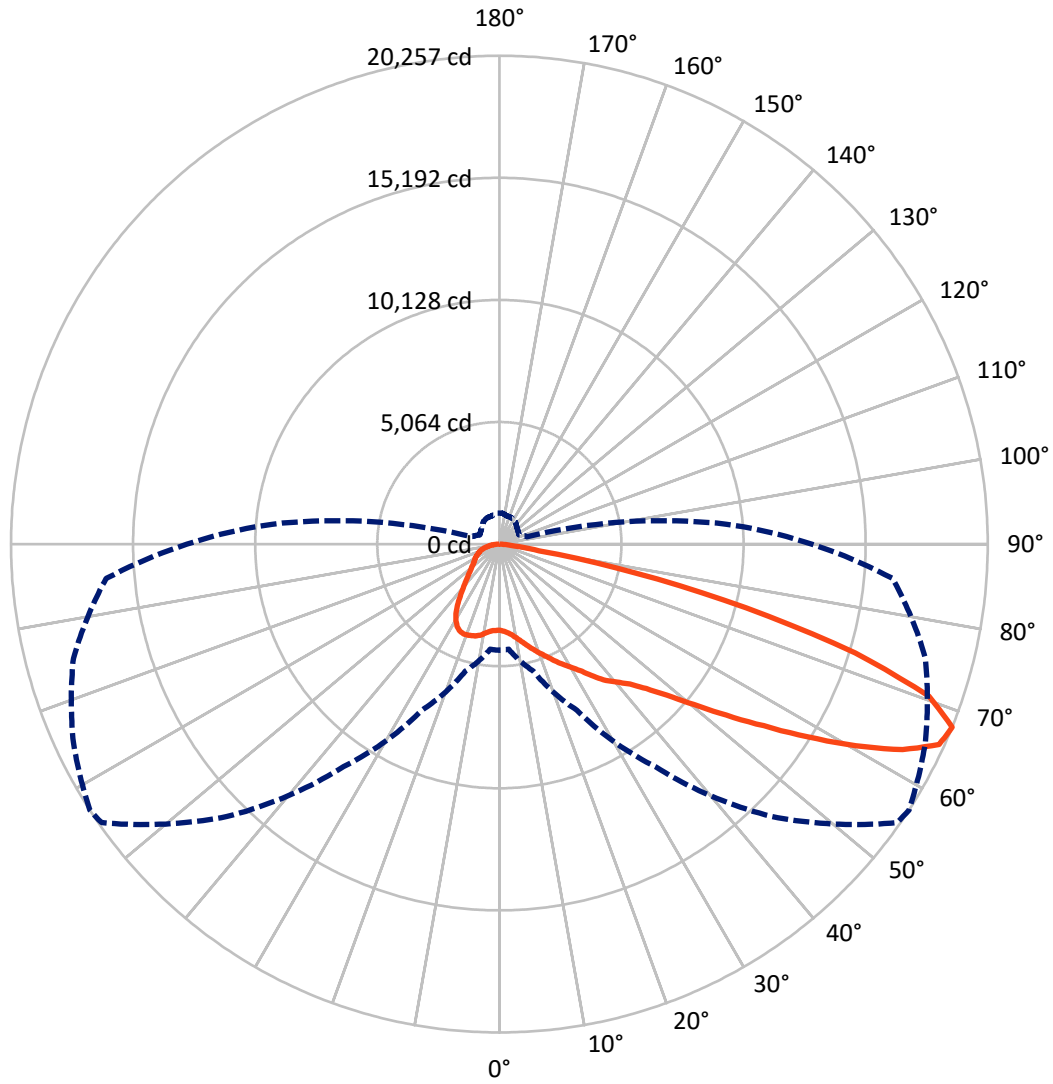
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6518.8	0.0	6518.8
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	23130.6	0.0	23130.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	29649.4	0.0	29649.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.3	1.2
10°-20°	1173.0	4.0
20°-30°	2091.2	7.1
30°-40°	3040.3	10.3
40°-50°	4400.4	14.8
50°-60°	6886.5	23.2
60°-70°	8033.6	27.1
70°-80°	3353.5	11.3
80°-90°	316.5	1.1
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°	29649.4	100.0
0°-180°	29649.4	100.0

Coefficient of Utilization



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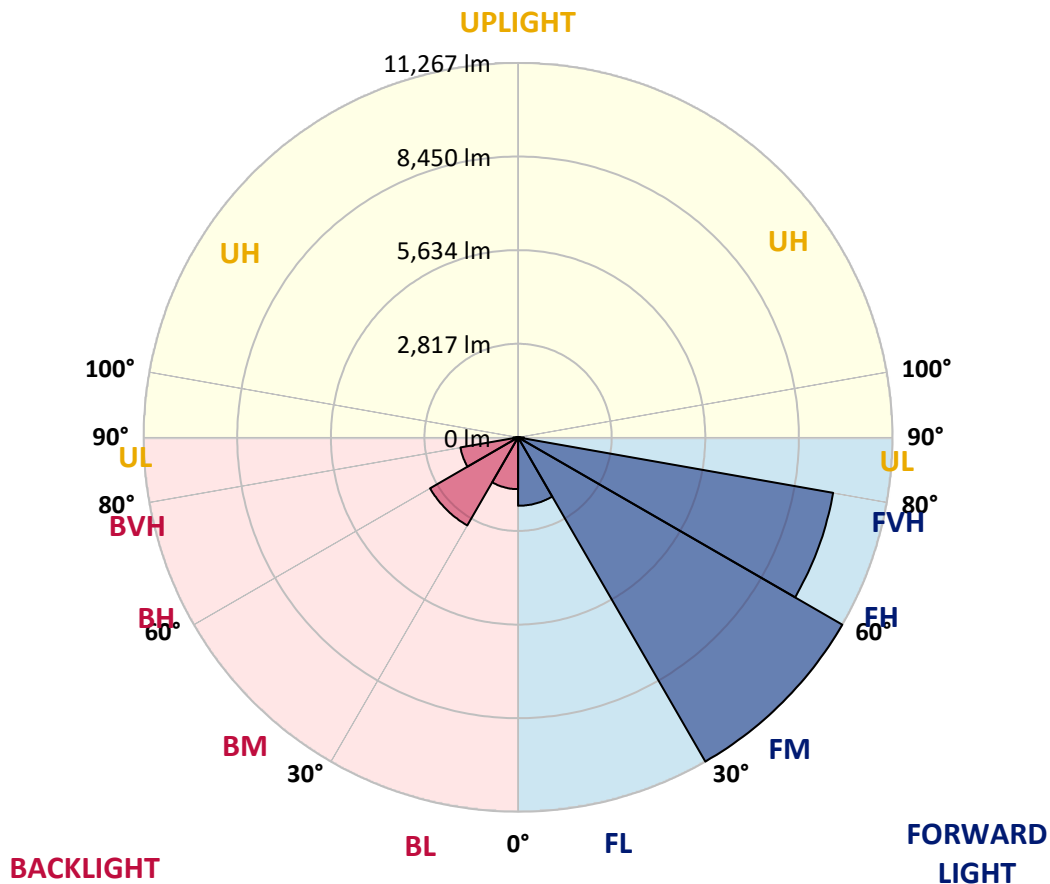
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2059.4	6.9			
FM (30°-60°)	11267.2	38.0			
FH (60°-80°)	9627.7	32.5			G4/12000
FVH (80°-90°)	176.3	0.6			G2/225
BL (0°-30°)	1559.1	5.3	B3/2500		
BM (30°-60°)	3060.1	10.3	B3/5000		
BH (60°-80°)	1759.4	5.9	B3/2500		G3/2500
BVH (80°-90°)	140.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3572.6	3572.6	3572.6	3572.6	3572.6	3572.6	3572.6	3572.6	3572.6	3572.6	3572.6
2.5°	3623.5	3619.3	3617.2	3629.9	3625.7	3623.5	3623.5	3621.4	3617.2	3600.2	3576.8
5°	3723.4	3714.9	3706.4	3717.0	3708.5	3700.0	3697.9	3693.6	3678.8	3653.3	3617.2
7.5°	3827.4	3818.9	3821.1	3827.4	3821.1	3816.8	3810.4	3806.2	3782.8	3742.5	3693.6
10°	3974.0	3974.0	3978.2	3984.6	3986.7	3980.4	3967.6	3961.2	3933.6	3882.7	3814.7
12.5°	4186.4	4182.1	4182.1	4177.9	4184.3	4177.9	4165.1	4154.5	4120.5	4054.7	3957.0
15°	4466.8	4449.8	4434.9	4407.3	4398.8	4375.4	4379.7	4373.3	4341.4	4252.2	4129.0
17.5°	4766.2	4764.1	4740.7	4685.5	4630.3	4592.1	4600.6	4598.4	4581.4	4460.4	4303.2
20°	5029.6	5040.2	5019.0	4976.5	4902.2	4830.0	4825.7	4836.3	4815.1	4694.0	4475.2
22.5°	5324.8	5316.3	5295.1	5239.9	5184.7	5108.2	5082.7	5074.2	5065.7	4927.7	4651.5
25°	5605.2	5630.7	5603.1	5552.1	5467.1	5384.3	5363.1	5371.6	5348.2	5165.5	4840.6
27.5°	5959.9	5970.5	5953.5	5883.5	5811.2	5694.4	5654.1	5654.1	5645.6	5388.6	4989.3
30°	6338.0	6367.7	6338.0	6280.6	6206.3	6038.5	5951.4	5942.9	5917.4	5618.0	5163.4
32.5°	6718.2	6739.4	6718.2	6663.0	6578.0	6431.4	6306.1	6287.0	6253.0	5868.6	5341.8
35°	7055.9	7075.0	7070.8	7083.5	7013.4	6828.6	6752.2	6743.7	6654.5	6195.7	5584.0
37.5°	7425.5	7448.8	7417.0	7442.5	7414.8	7240.7	7217.3	7174.8	7047.4	6503.7	5838.8
40°	7846.0	7867.3	7816.3	7826.9	7795.0	7697.3	7578.4	7521.0	7332.0	6837.1	6240.3
42.5°	8296.3	8345.2	8368.5	8349.4	8275.1	8219.8	8011.7	7939.5	7782.3	7438.2	6900.8
45°	8948.4	9020.6	9054.6	9005.7	8973.9	8895.3	8640.4	8553.3	8470.5	8285.7	7822.7
47.5°	9651.4	9717.3	9825.6	9846.8	9872.3	9812.8	9453.9	9368.9	9383.8	9362.5	8956.9
50°	10212.1	10267.4	10511.6	10772.9	10989.5	11006.5	10547.7	10456.4	10537.1	10605.1	10322.6
52.5°	10619.9	10668.8	10991.6	11531.1	12021.8	12385.0	11890.1	11786.0	11851.9	12004.8	11875.2
55°	10951.3	11019.3	11357.0	12185.3	13177.2	13750.7	13434.2	13302.5	13274.9	13464.0	13538.3
57.5°	11125.5	11146.7	11620.3	12697.2	14024.7	15090.9	15229.0	15080.3	14817.0	14921.0	15307.6
60°	10728.3	10764.4	11412.2	12828.9	14693.8	16420.6	17113.0	16989.8	16429.1	16486.4	16913.3
62.5°	9630.2	9681.1	10460.6	12202.3	14749.0	17308.4	18852.5	18773.9	18022.1	17712.0	17839.4
65°	7725.0	7741.9	8549.1	10651.8	13650.9	17418.8	20065.3	20046.2	19135.0	18408.6	17862.8
67.5°	4405.2	4375.4	5454.4	7597.5	11265.6	15983.0	20143.9	20256.5	19496.1	18293.9	16376.0
70°	1909.5	1913.7	2410.7	3748.8	7291.7	12918.1	18710.2	18903.5	18451.1	16384.5	13028.6
72.5°	883.6	896.3	1110.8	1622.7	3113.8	8013.8	15256.6	15430.8	15042.1	13113.5	9479.4
75°	624.5	635.1	741.3	930.3	1431.6	3122.3	10205.8	10571.1	10760.1	9808.6	6246.7
77.5°	473.6	488.5	541.6	645.7	883.6	1106.6	4883.1	5753.9	6854.1	6102.2	3217.8
80°	301.6	301.6	359.0	431.2	539.5	575.6	1410.3	1671.6	3353.8	2514.8	1263.8
82.5°	203.9	210.3	244.3	274.0	310.1	327.1	605.3	645.7	968.5	856.0	520.4
85°	108.3	112.6	127.4	125.3	148.7	129.6	254.9	252.8	354.7	388.7	197.5
87.5°	0.0	0.0	2.1	2.1	4.2	6.4	27.6	29.7	74.3	118.9	65.8
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°	3572.6	3572.6	3572.6	3572.6	3572.6	3572.6	3572.6	3572.6	3572.6	3572.6	3572.6
2.5°	3589.5	3564.1	3576.8	3572.6	3585.3	3585.3	3561.9	3555.6	3557.7	3532.2	3523.7
5°	3621.4	3591.7	3598.0	3589.5	3602.3	3612.9	3602.3	3602.3	3615.0	3595.9	3585.3
7.5°	3693.6	3659.6	3659.6	3649.0	3663.9	3672.4	3663.9	3676.6	3700.0	3680.9	3670.3
10°	3808.3	3768.0	3770.1	3757.3	3763.7	3759.5	3725.5	3714.9	3721.2	3704.2	3695.7
12.5°	3957.0	3901.8	3901.8	3876.3	3861.4	3816.8	3746.7	3721.2	3725.5	3710.6	3704.2
15°	4099.3	4048.3	4037.7	3986.7	3918.8	3835.9	3772.2	3755.2	3759.5	3744.6	3734.0
17.5°	4267.1	4201.3	4163.0	4069.6	3944.2	3859.3	3795.6	3755.2	3721.2	3687.2	3678.8
20°	4422.1	4339.3	4269.2	4124.8	3971.9	3855.0	3736.1	3636.3	3553.4	3508.8	3498.2
22.5°	4581.4	4475.2	4352.1	4163.0	3969.7	3778.6	3559.8	3409.0	3285.8	3220.0	3232.7
25°	4732.2	4598.4	4430.6	4199.1	3901.8	3608.7	3311.3	3086.2	2946.0	2895.0	2880.1
27.5°	4857.6	4691.9	4502.9	4182.1	3761.6	3364.4	2971.5	2720.8	2584.9	2527.5	2512.7
30°	4997.7	4810.8	4606.9	4103.5	3540.7	3022.4	2587.0	2383.1	2285.4	2230.2	2232.3
32.5°	5159.2	4963.8	4753.5	3952.7	3258.2	2652.9	2270.5	2130.4	2051.8	1996.6	1988.1
35°	5375.8	5182.5	4851.2	3725.5	2899.2	2313.0	2053.9	1939.2	1841.5	1769.3	1754.4
37.5°	5643.4	5511.8	4861.8	3421.7	2514.8	2079.4	1898.8	1775.7	1656.7	1561.1	1550.5
40°	6102.2	5951.4	4774.7	3041.6	2187.7	1928.6	1769.3	1627.0	1488.9	1382.7	1367.8
42.5°	6756.4	6446.3	4587.8	2612.5	1941.3	1809.6	1646.1	1465.6	1325.4	1251.0	1240.4
45°	7589.0	6998.5	4307.5	2208.9	1758.7	1692.8	1516.5	1327.5	1253.2	1200.1	1189.4
47.5°	8608.5	7642.1	3984.6	1894.6	1616.4	1586.6	1384.8	1280.8	1214.9	1170.3	1159.7
50°	9827.7	8462.0	3719.1	1648.2	1488.9	1463.4	1342.4	1253.2	1200.1	1163.9	1155.5
52.5°	11218.9	9373.2	3589.5	1471.9	1378.5	1353.0	1327.5	1246.8	1202.2	1174.6	1163.9
55°	12663.2	10333.2	3468.5	1336.0	1285.0	1299.9	1329.6	1268.0	1234.0	1197.9	1187.3
57.5°	14058.7	11233.8	3171.1	1229.8	1217.0	1274.4	1340.2	1289.3	1248.9	1212.8	1200.1
60°	15020.9	11726.5	2667.7	1144.8	1166.1	1242.5	1312.6	1257.4	1206.4	1191.6	1185.2
62.5°	15280.0	11667.1	2070.9	1057.7	1104.5	1172.4	1240.4	1204.3	1151.2	1174.6	1176.7
65°	14674.6	11029.9	1554.8	972.8	1023.8	1081.1	1166.1	1151.2	1132.1	1195.8	1197.9
67.5°	12960.6	9464.5	1185.2	898.4	940.9	1011.0	1142.7	1204.3	1208.6	1289.3	1280.8
70°	9806.5	7070.8	928.2	828.4	877.2	1011.0	1217.0	1244.7	1193.7	1268.0	1251.0
72.5°	6779.8	4666.4	790.1	766.8	798.6	964.3	1214.9	1214.9	1159.7	1159.7	1127.8
75°	4211.9	2744.2	688.2	688.2	688.2	843.2	1180.9	1119.3	1021.6	977.0	951.5
77.5°	2079.4	1333.9	577.7	599.0	575.6	705.2	964.3	915.4	856.0	809.2	792.2
80°	887.8	666.9	467.3	490.6	463.0	531.0	764.6	754.0	696.7	635.1	616.0
82.5°	407.8	344.1	373.8	384.4	337.7	399.3	558.6	558.6	526.7	441.8	409.9
85°	174.2	182.7	259.1	259.1	212.4	225.1	299.5	284.6	254.9	208.2	191.2
87.5°	59.5	89.2	131.7	114.7	44.6	19.1	10.6	4.2	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)