

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: P642679

Luminaire Tested: GWS-SA6D-735-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642679
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-SA6D-735-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35354.8 lumens
Efficiency: N/A
Efficacy: 143.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 245.7
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

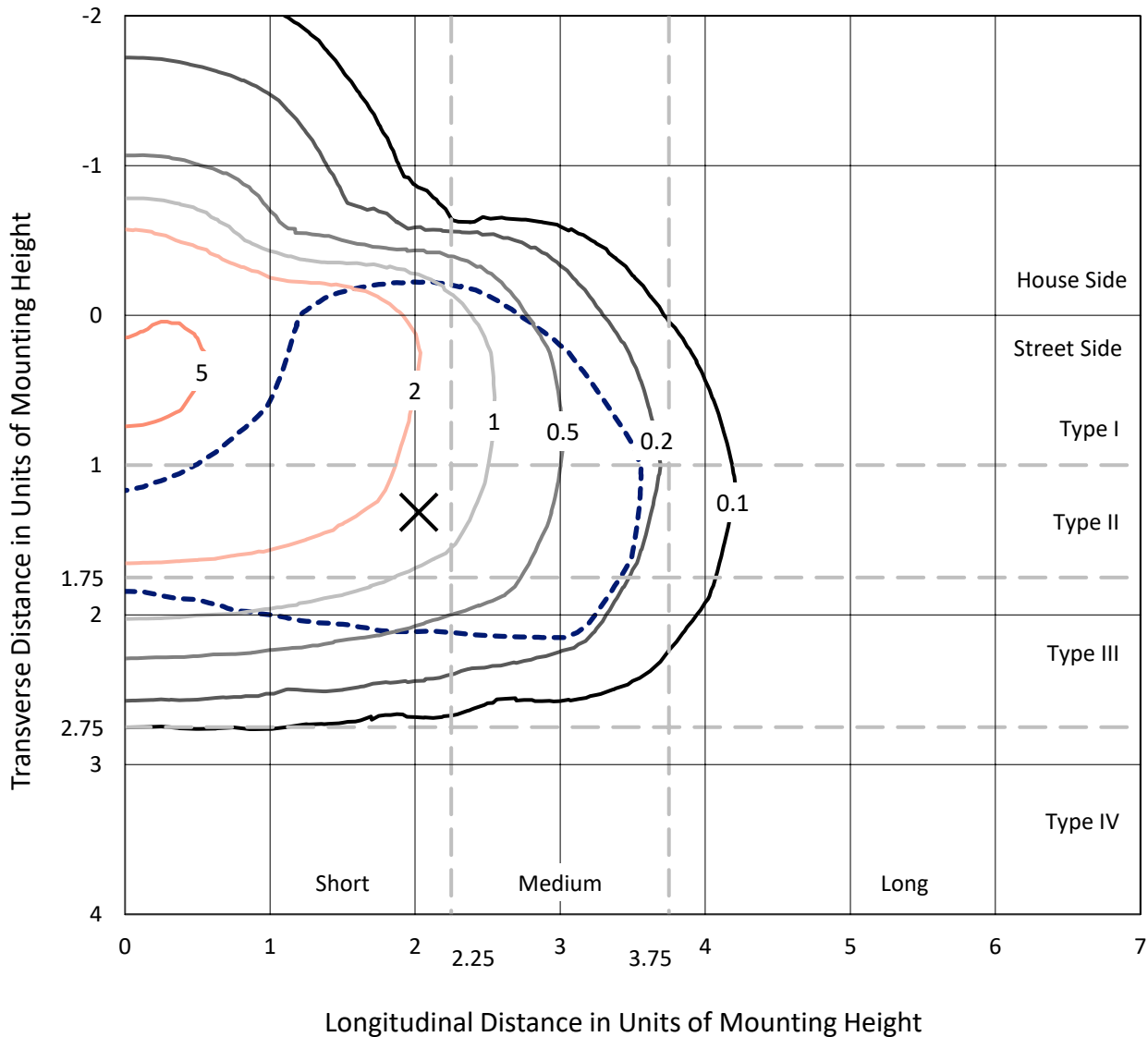


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Iso-Footcandle Lines of Horizontal Illumination

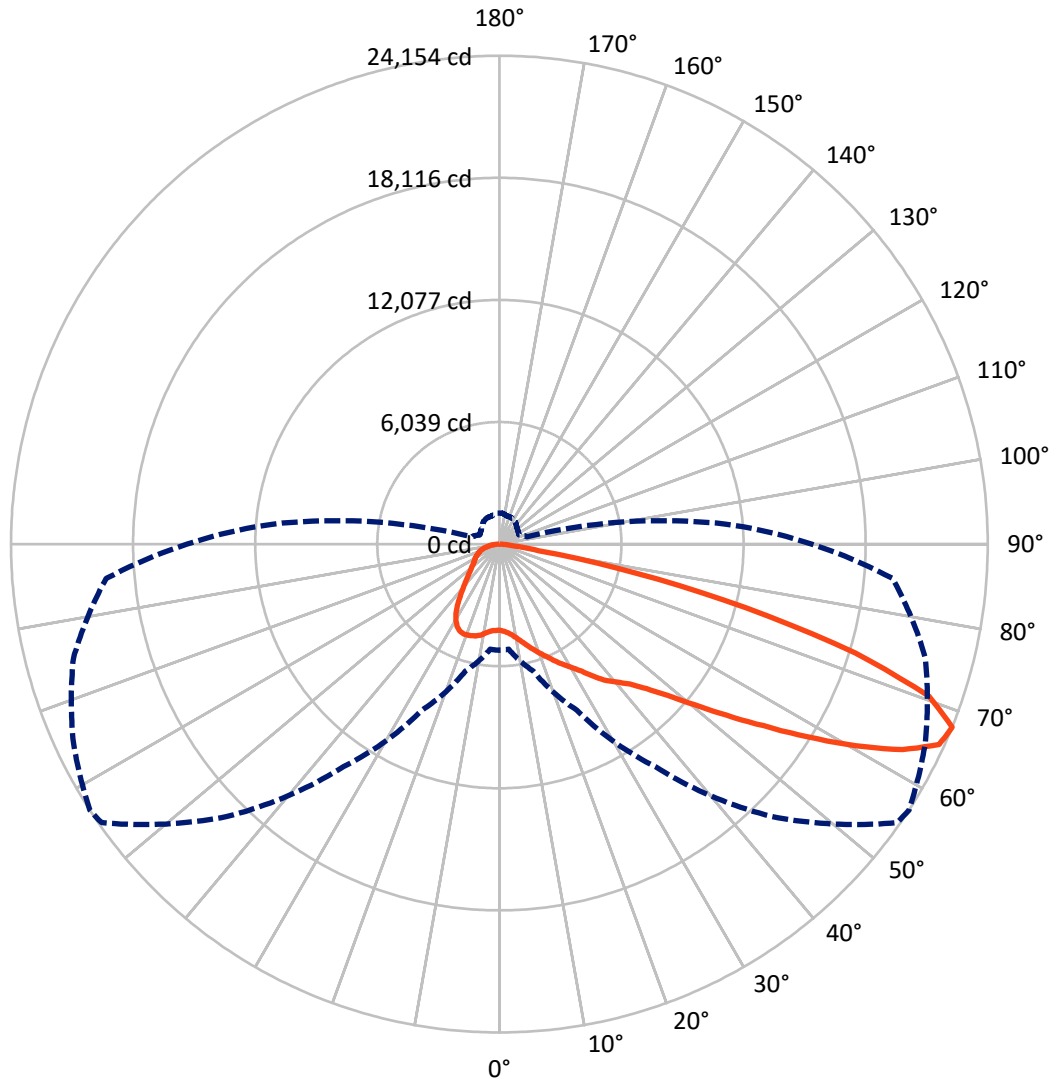
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 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	7773.2	0.0	7773.2
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	27581.6	0.0	27581.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	35354.8	0.0	35354.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.5	1.2
10°-20°	1398.7	4.0
20°-30°	2493.6	7.1
30°-40°	3625.4	10.3
40°-50°	5247.2	14.8
50°-60°	8211.7	23.2
60°-70°	9579.5	27.1
70°-80°	3998.9	11.3
80°-90°	377.4	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°	35354.8	100.0
0°-180°	35354.8	100.0

Coefficient of Utilization



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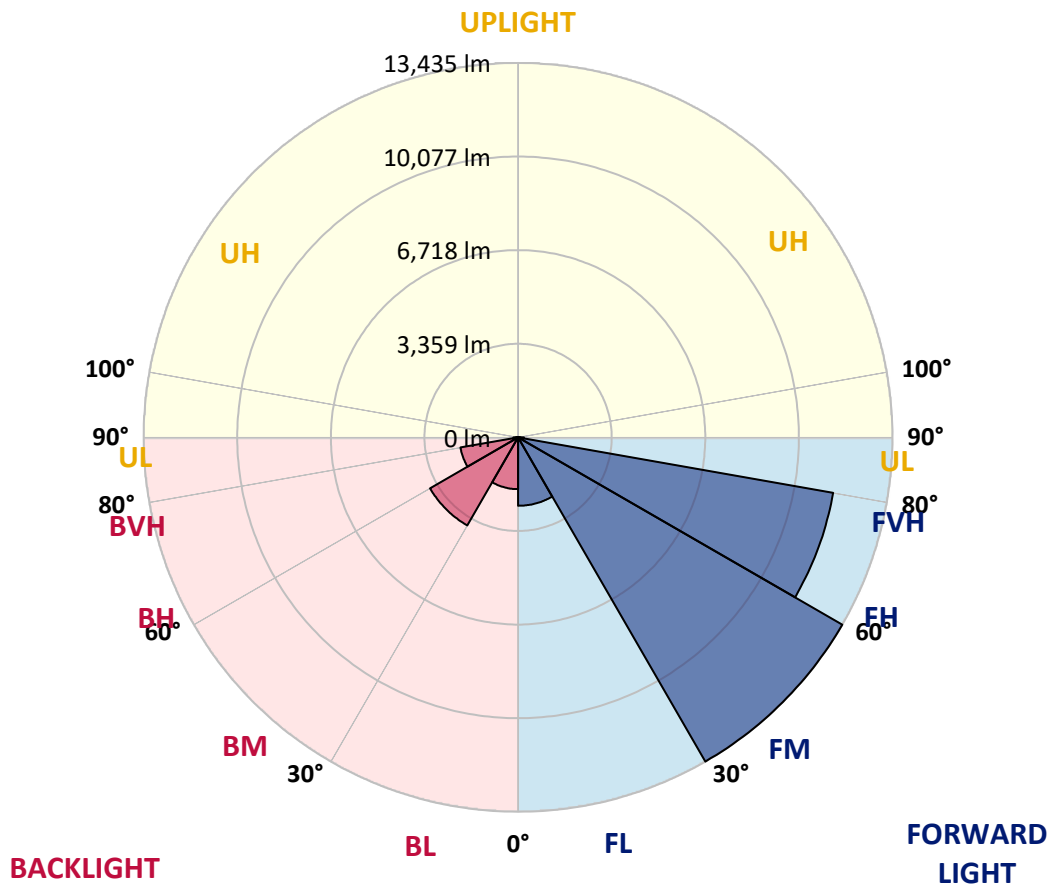
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2455.7	6.9			
FM (30°-60°)	13435.3	38.0			
FH (60°-80°)	11480.3	32.5			G4/12000
FVH (80°-90°)	210.2	0.6			G2/225
BL (0°-30°)	1859.1	5.3	B3/2500		
BM (30°-60°)	3648.9	10.3	B3/5000		
BH (60°-80°)	2098.0	5.9	B3/2500		G3/2500
BVH (80°-90°)	167.1	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°	4260.0	4260.0	4260.0	4260.0	4260.0	4260.0	4260.0	4260.0	4260.0	4260.0	4260.0
2.5°	4320.8	4315.7	4313.2	4328.4	4323.3	4320.8	4320.8	4318.3	4313.2	4292.9	4265.1
5°	4439.8	4429.7	4419.6	4432.2	4422.1	4412.0	4409.4	4404.4	4386.6	4356.3	4313.2
7.5°	4563.9	4553.8	4556.3	4563.9	4556.3	4551.3	4543.7	4538.6	4510.8	4462.6	4404.4
10°	4738.7	4738.7	4743.8	4751.4	4753.9	4746.3	4731.1	4723.5	4690.6	4629.8	4548.7
12.5°	4992.0	4986.9	4986.9	4981.8	4989.4	4981.8	4966.6	4954.0	4913.5	4834.9	4718.4
15°	5326.3	5306.0	5288.3	5255.4	5245.2	5217.4	5222.4	5214.8	5176.9	5070.5	4923.6
17.5°	5683.4	5680.9	5653.0	5587.2	5521.3	5475.7	5485.8	5483.3	5463.0	5318.7	5131.3
20°	5997.4	6010.1	5984.8	5934.1	5845.5	5759.4	5754.3	5767.0	5741.6	5597.3	5336.4
22.5°	6349.5	6339.4	6314.0	6248.2	6182.3	6091.2	6060.8	6050.6	6040.5	5875.9	5546.6
25°	6683.8	6714.2	6681.3	6620.5	6519.2	6420.4	6395.1	6405.2	6377.4	6159.5	5772.0
27.5°	7106.8	7119.4	7099.2	7015.6	6929.5	6790.2	6742.1	6742.1	6731.9	6425.5	5949.3
30°	7557.6	7593.1	7557.6	7489.2	7400.6	7200.5	7096.6	7086.5	7056.1	6699.0	6157.0
32.5°	8011.0	8036.3	8011.0	7945.1	7843.8	7669.0	7519.6	7496.8	7456.3	6997.9	6369.8
35°	8413.7	8436.4	8431.4	8446.6	8363.0	8142.7	8051.5	8041.3	7935.0	7387.9	6658.5
37.5°	8854.3	8882.2	8844.2	8874.6	8841.7	8634.0	8606.1	8555.5	8403.5	7755.1	6962.4
40°	9355.8	9381.1	9320.4	9333.0	9295.0	9178.5	9036.7	8968.3	8742.9	8152.8	7441.1
42.5°	9892.8	9951.0	9978.9	9956.1	9867.4	9801.6	9553.4	9467.3	9279.8	8869.5	8228.8
45°	10670.3	10756.4	10796.9	10738.7	10700.7	10607.0	10303.1	10199.2	10100.4	9880.1	9328.0
47.5°	11508.6	11587.1	11716.3	11741.6	11772.0	11701.1	11273.1	11171.8	11189.5	11164.2	10680.4
50°	12177.3	12243.1	12534.4	12845.9	13104.2	13124.5	12577.4	12468.5	12564.8	12645.8	12309.0
52.5°	12663.5	12721.8	13106.8	13750.1	14335.1	14768.2	14178.1	14054.0	14132.5	14314.9	14160.4
55°	13058.6	13139.7	13542.4	14530.1	15712.9	16396.7	16019.4	15862.3	15829.4	16054.8	16143.5
57.5°	13266.3	13291.6	13856.4	15140.5	16723.5	17994.9	18159.5	17982.2	17668.2	17792.3	18253.2
60°	12792.7	12835.8	13608.2	15297.5	17521.3	19580.4	20406.0	20259.1	19590.5	19658.9	20167.9
62.5°	11483.3	11544.1	12473.6	14550.4	17587.1	20639.0	22480.3	22386.6	21490.0	21120.2	21272.2
65°	9211.5	9231.7	10194.1	12701.5	16277.7	20770.7	23926.5	23903.7	22817.2	21951.0	21300.1
67.5°	5252.8	5217.4	6504.0	9059.5	13433.5	19058.6	24020.2	24154.4	23247.7	21814.2	19527.2
70°	2276.9	2282.0	2874.6	4470.2	8694.8	15403.9	22310.6	22541.1	22001.6	19537.3	15535.6
72.5°	1053.6	1068.8	1324.6	1935.0	3712.9	9555.9	18192.4	18400.1	17936.6	15636.9	11303.5
75°	744.6	757.3	883.9	1109.3	1707.0	3723.1	12169.7	12605.3	12830.7	11696.0	7448.7
77.5°	564.8	582.5	645.8	769.9	1053.6	1319.5	5822.7	6861.1	8173.0	7276.5	3837.1
80°	359.6	359.6	428.0	514.1	643.3	686.4	1681.7	1993.2	3999.1	2998.7	1507.0
82.5°	243.1	250.7	291.3	326.7	369.8	390.0	721.8	769.9	1154.9	1020.7	620.5
85°	129.2	134.2	152.0	149.4	177.3	154.5	303.9	301.4	423.0	463.5	235.5
87.5°	0.0	0.0	2.5	2.5	5.1	7.6	32.9	35.5	88.6	141.8	78.5
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°	4260.0	4260.0	4260.0	4260.0	4260.0	4260.0	4260.0	4260.0	4260.0	4260.0	4260.0
2.5°	4280.3	4249.9	4265.1	4260.0	4275.2	4275.2	4247.3	4239.8	4242.3	4211.9	4201.8
5°	4318.3	4282.8	4290.4	4280.3	4295.5	4308.1	4295.5	4295.5	4310.7	4287.9	4275.2
7.5°	4404.4	4363.9	4363.9	4351.2	4368.9	4379.0	4368.9	4384.1	4412.0	4389.2	4376.5
10°	4541.1	4493.0	4495.6	4480.4	4488.0	4482.9	4442.4	4429.7	4437.3	4417.0	4406.9
12.5°	4718.4	4652.6	4652.6	4622.2	4604.5	4551.3	4467.7	4437.3	4442.4	4424.6	4417.0
15°	4888.1	4827.3	4814.7	4753.9	4672.8	4574.1	4498.1	4477.8	4482.9	4465.2	4452.5
17.5°	5088.2	5009.7	4964.1	4852.7	4703.2	4601.9	4525.9	4477.8	4437.3	4396.8	4386.6
20°	5273.1	5174.3	5090.7	4918.5	4736.2	4596.9	4455.0	4336.0	4237.2	4184.0	4171.4
22.5°	5463.0	5336.4	5189.5	4964.1	4733.6	4505.7	4244.8	4065.0	3918.1	3839.6	3854.8
25°	5642.9	5483.3	5283.2	5007.2	4652.6	4303.1	3948.5	3680.0	3512.9	3452.1	3434.4
27.5°	5792.3	5594.7	5369.3	4986.9	4485.4	4011.8	3543.3	3244.4	3082.3	3013.9	2996.2
30°	5959.5	5736.6	5493.4	4893.2	4222.0	3604.0	3084.8	2841.7	2725.2	2659.3	2661.9
32.5°	6151.9	5918.9	5668.2	4713.4	3885.2	3163.4	2707.5	2540.3	2446.6	2380.7	2370.6
35°	6410.3	6179.8	5784.7	4442.4	3457.1	2758.1	2449.1	2312.4	2195.9	2109.7	2092.0
37.5°	6729.4	6572.4	5797.4	4080.2	2998.7	2479.5	2264.2	2117.3	1975.5	1861.5	1848.9
40°	7276.5	7096.6	5693.5	3626.8	2608.7	2299.7	2109.7	1940.1	1775.4	1648.8	1631.1
42.5°	8056.5	7686.8	5470.6	3115.2	2314.9	2157.9	1962.8	1747.6	1580.4	1491.8	1479.1
45°	9049.4	8345.3	5136.3	2634.0	2097.1	2018.6	1808.4	1582.9	1494.3	1431.0	1418.3
47.5°	10265.1	9112.7	4751.4	2259.2	1927.4	1891.9	1651.3	1527.2	1448.7	1395.5	1382.9
50°	11718.8	10090.3	4434.8	1965.4	1775.4	1745.0	1600.7	1494.3	1431.0	1387.9	1377.8
52.5°	13377.8	11176.8	4280.3	1755.2	1643.7	1613.3	1582.9	1486.7	1433.5	1400.6	1387.9
55°	15100.0	12321.6	4135.9	1593.1	1532.3	1550.0	1585.5	1512.0	1471.5	1428.4	1415.8
57.5°	16764.0	13395.5	3781.3	1466.4	1451.2	1519.6	1598.1	1537.4	1489.2	1446.2	1431.0
60°	17911.3	13983.1	3181.1	1365.1	1390.5	1481.6	1565.2	1499.4	1438.6	1420.8	1413.3
62.5°	18220.3	13912.2	2469.4	1261.3	1317.0	1398.1	1479.1	1436.0	1372.7	1400.6	1403.1
65°	17498.5	13152.3	1853.9	1160.0	1220.8	1289.1	1390.5	1372.7	1349.9	1425.9	1428.4
67.5°	15454.6	11285.7	1413.3	1071.3	1122.0	1205.6	1362.6	1436.0	1441.1	1537.4	1527.2
70°	11693.5	8431.4	1106.8	987.8	1046.0	1205.6	1451.2	1484.2	1423.4	1512.0	1491.8
72.5°	8084.4	5564.4	942.2	914.3	952.3	1149.8	1448.7	1448.7	1382.9	1382.9	1344.9
75°	5022.4	3272.3	820.6	820.6	820.6	1005.5	1408.2	1334.7	1218.2	1165.0	1134.7
77.5°	2479.5	1590.5	688.9	714.2	686.4	840.9	1149.8	1091.6	1020.7	965.0	944.7
80°	1058.7	795.3	557.2	585.1	552.1	633.2	911.8	899.1	830.7	757.3	734.5
82.5°	486.3	410.3	445.8	458.4	402.7	476.1	666.1	666.1	628.1	526.8	488.8
85°	207.7	217.8	309.0	309.0	253.3	268.5	357.1	339.4	303.9	248.2	227.9
87.5°	70.9	106.4	157.0	136.8	53.2	22.8	12.7	5.1	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)