

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: P639350

Luminaire Tested: GWS-SA5B-760-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639350
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-760-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15257.4 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

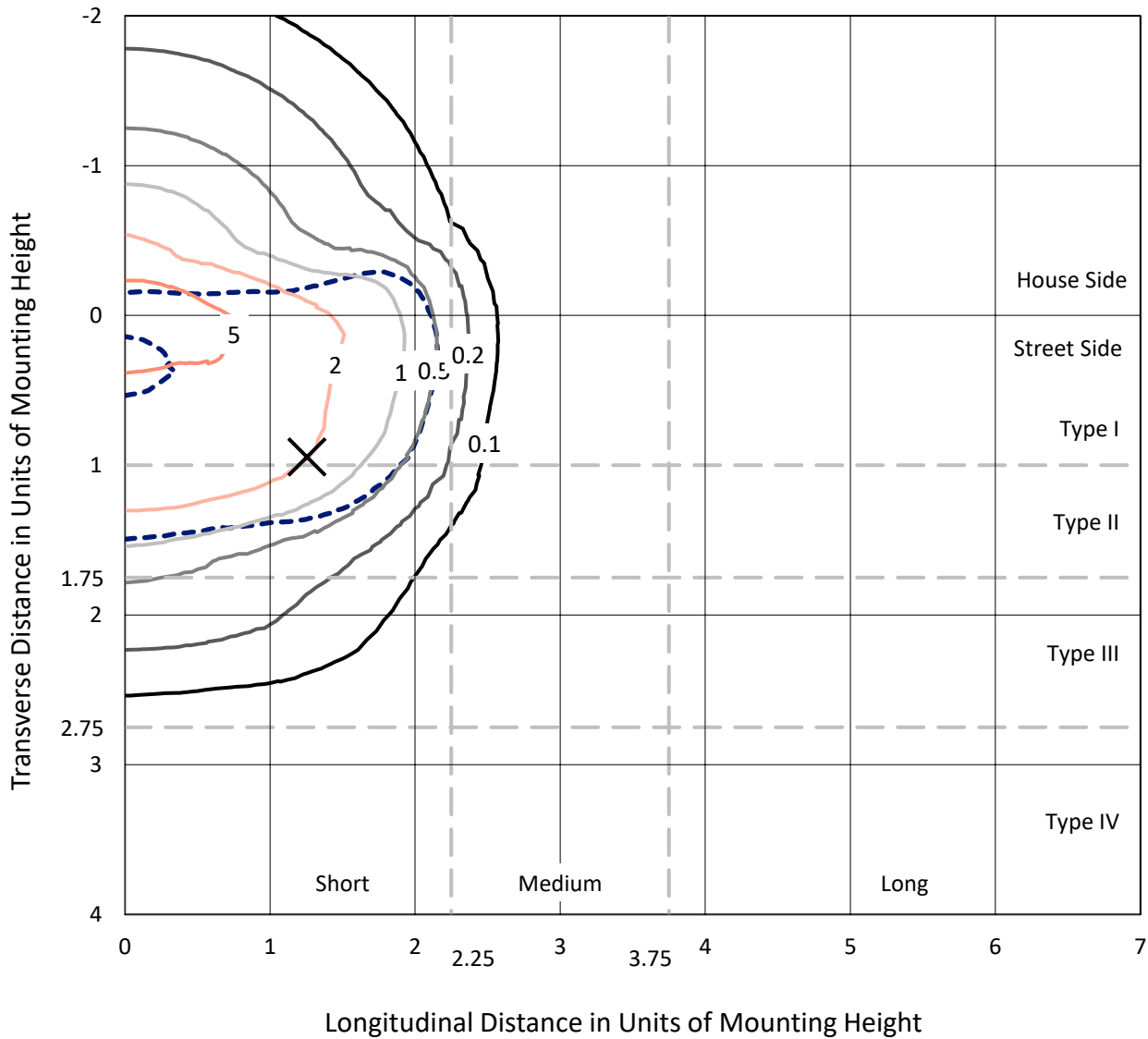
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

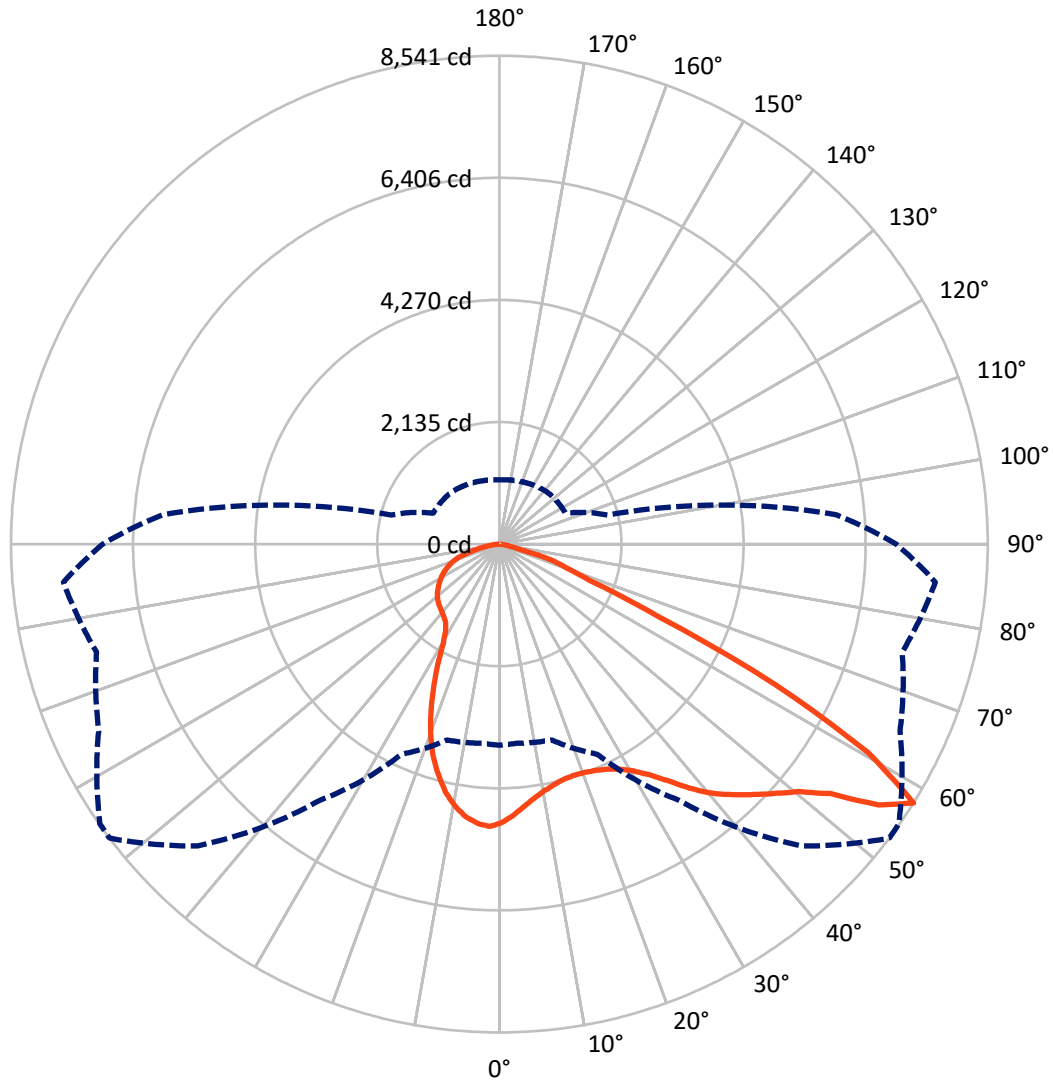
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4770.4	0.0	4770.4
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	10487.0	0.0	10487.0
	% Fixture	68.7	0.0	68.7
Total	Lumens	15257.4	0.0	15257.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.6	2.9
10°-20°	1155.9	7.6
20°-30°	1703.0	11.2
30°-40°	2383.8	15.6
40°-50°	3133.7	20.5
50°-60°	3674.2	24.1
60°-70°	2164.5	14.2
70°-80°	538.5	3.5
80°-90°	63.2	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°	15257.4	100.0
0°-180°	15257.4	100.0

Coefficient of Utilization



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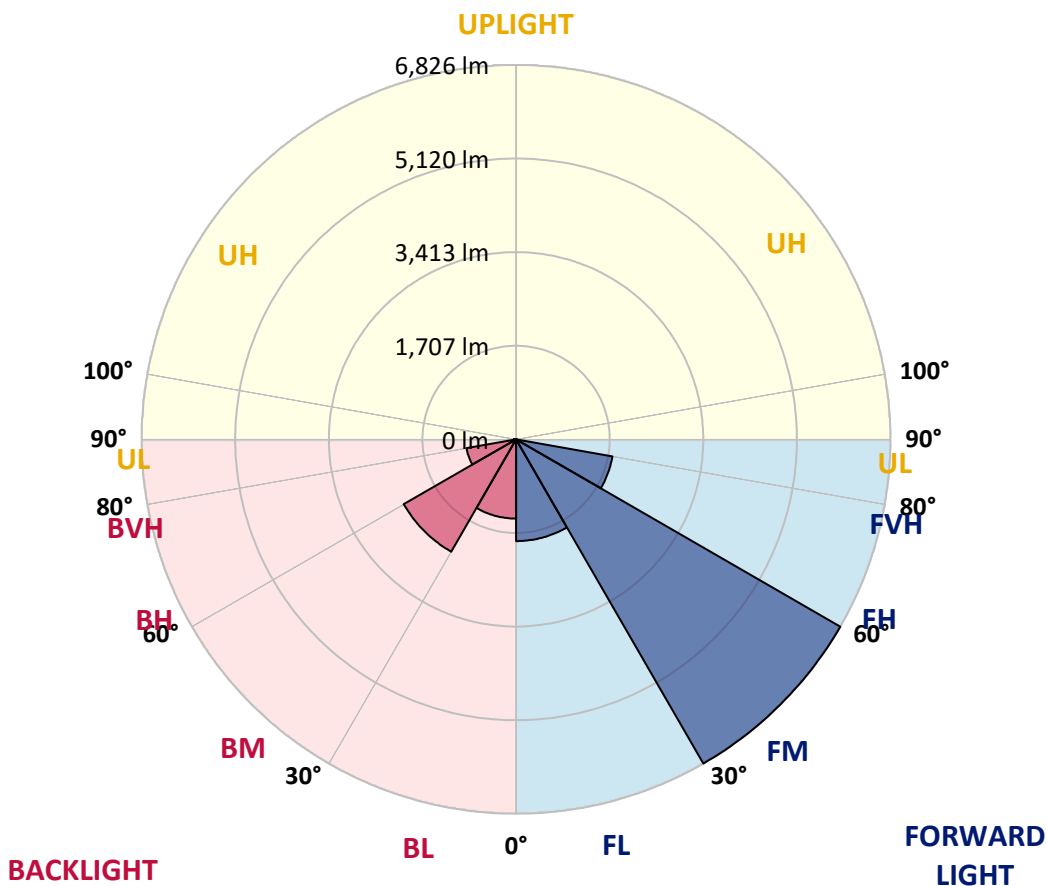
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1855.0	12.2			
FM (30°-60°)	6826.3	44.7			
FH (60°-80°)	1784.5	11.7			G1/1800
FVH (80°-90°)	21.1	0.1			G1/100
BL (0°-30°)	1444.5	9.5	B3/2500		
BM (30°-60°)	2365.4	15.5	B2/2500		
BH (60°-80°)	918.5	6.0	B2/1000		G2/1000
BVH (80°-90°)	42.0	0.3			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°	53°	55°	65°	75°	85°
0°	4872.1	4872.1	4872.1	4872.1	4872.1	4872.1	4872.1	4872.1	4872.1	4872.1	4872.1
2.5°	4592.2	4605.0	4607.6	4647.4	4649.9	4707.7	4746.3	4738.5	4778.4	4827.2	4865.7
5°	4372.6	4373.8	4386.7	4434.2	4459.9	4535.7	4599.9	4599.9	4676.9	4777.1	4863.1
7.5°	4191.5	4190.2	4201.8	4254.4	4296.8	4388.0	4475.3	4485.6	4593.4	4739.8	4879.8
10°	4023.3	4032.3	4045.1	4109.3	4163.2	4276.3	4380.3	4397.0	4533.1	4714.1	4902.9
12.5°	3915.4	3916.7	3935.9	4007.9	4077.2	4197.9	4307.1	4327.6	4484.3	4689.7	4919.6
15°	3846.1	3847.3	3867.9	3947.5	4028.4	4150.4	4262.1	4285.2	4456.0	4685.9	4951.7
17.5°	3815.2	3814.0	3833.2	3912.8	4001.4	4128.6	4248.0	4276.3	4468.9	4715.4	5008.2
20°	3815.2	3816.5	3826.8	3898.7	3988.6	4123.4	4262.1	4296.8	4519.0	4782.2	5095.5
22.5°	3869.2	3874.3	3879.4	3928.2	3998.9	4131.1	4299.4	4345.6	4626.8	4893.9	5209.8
25°	3974.5	3975.8	3980.9	4020.7	4052.8	4153.0	4361.0	4430.3	4795.1	5057.0	5353.7
27.5°	4115.7	4133.7	4138.8	4164.5	4164.5	4206.9	4457.3	4557.5	5022.3	5292.0	5537.3
30°	4313.5	4319.9	4328.9	4357.2	4326.3	4308.4	4598.6	4727.0	5285.6	5575.8	5758.2
32.5°	4486.9	4501.0	4549.8	4596.0	4540.8	4484.3	4806.6	4958.1	5538.6	5871.2	5993.2
35°	4634.5	4669.2	4762.9	4865.7	4827.2	4770.7	5082.7	5240.7	5746.6	6083.1	6201.2
37.5°	4813.0	4840.0	4968.4	5135.4	5170.0	5143.1	5419.2	5532.2	5885.3	6137.0	6314.2
40°	4994.1	5035.2	5200.8	5432.0	5564.3	5583.5	5729.9	5805.7	5932.8	6031.7	6292.4
42.5°	5179.0	5249.6	5476.9	5746.6	5981.6	6025.3	5991.9	6024.0	5917.4	5886.6	6190.9
45°	5405.0	5488.5	5745.3	6089.5	6399.0	6467.0	6248.7	6219.2	5914.8	5831.4	6128.0
47.5°	5672.1	5755.6	6000.9	6401.5	6797.1	6847.1	6512.0	6458.0	6004.7	5916.1	6212.8
50°	5908.4	5966.2	6185.8	6634.0	7168.2	7197.7	6802.2	6736.7	6228.2	6151.1	6477.3
52.5°	5668.3	5661.9	5893.0	6445.2	7360.8	7716.5	7249.1	7186.2	6659.6	6541.5	6886.9
55°	4809.2	4736.0	4942.7	5485.9	6822.7	8177.5	8050.4	7924.5	7235.0	6934.5	7270.9
57.5°	3516.0	3495.5	3545.6	4055.4	5465.4	7463.5	8540.9	8529.4	7731.9	7294.0	7653.6
60°	2749.4	2718.6	2585.0	2599.1	3725.3	5830.1	7412.2	7752.5	8040.1	7509.8	7920.7
62.5°	2441.2	2418.1	2348.7	2157.4	2219.0	3909.0	5433.3	5745.3	7025.6	6632.7	6803.5
65°	2021.3	2014.8	2072.6	2064.9	1859.5	2158.7	3066.6	3381.2	4417.5	4472.7	4417.5
67.5°	1469.1	1457.5	1603.9	1892.9	1790.1	1629.6	1709.2	1818.4	2265.3	2034.1	1831.2
70°	955.4	938.7	1023.5	1367.6	1602.6	1420.3	1231.5	1213.5	1245.6	774.3	837.3
72.5°	640.8	621.5	620.2	752.5	968.3	956.7	954.1	945.1	843.7	611.3	678.0
75°	357.0	341.6	337.7	324.9	346.7	353.1	376.3	389.1	421.2	463.6	513.7
77.5°	60.4	59.1	74.5	95.0	131.0	168.2	208.0	219.6	271.0	321.0	353.1
80°	33.4	34.7	44.9	55.2	73.2	100.2	128.4	136.1	166.9	193.9	219.6
82.5°	18.0	18.0	23.1	29.5	39.8	52.7	69.3	75.8	96.3	113.0	131.0
85°	6.4	6.4	9.0	11.6	16.7	21.8	27.0	30.8	42.4	57.8	65.5
87.5°	0.0	0.0	0.0	0.0	1.3	2.6	5.1	5.1	6.4	11.6	16.7
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°	4872.1	4872.1	4872.1	4872.1	4872.1	4872.1	4872.1	4872.1	4872.1	4872.1	4872.1
2.5°	4897.8	4863.1	4910.6	4932.5	4940.2	4945.3	4911.9	4888.8	4881.1	4856.7	4842.6
5°	4915.8	4892.6	4937.6	4937.6	4905.5	4872.1	4804.0	4756.5	4723.1	4683.3	4676.9
7.5°	4946.6	4929.9	4954.3	4904.2	4823.3	4733.4	4615.3	4522.8	4448.3	4399.5	4400.8
10°	4987.7	4967.1	4947.9	4836.1	4688.5	4522.8	4341.7	4206.9	4083.6	4027.1	3996.3
12.5°	5014.6	4985.1	4904.2	4719.3	4502.3	4280.1	4024.6	3824.2	3645.7	3564.8	3558.4
15°	5048.0	4994.1	4832.3	4567.8	4266.0	3962.9	3634.2	3355.5	3114.1	2988.2	2981.8
17.5°	5091.7	5003.1	4746.3	4394.4	4016.8	3570.0	3156.5	2805.9	2549.1	2451.5	2468.2
20°	5153.3	5013.4	4648.7	4201.8	3707.4	3123.1	2608.1	2285.8	2186.9	2180.5	2167.7
22.5°	5222.7	5019.8	4540.8	3986.0	3332.4	2646.7	2154.8	2017.4	2016.1	2048.2	2055.9
25°	5301.0	5024.9	4418.8	3734.3	2926.6	2171.5	1905.7	1864.6	1896.7	1957.1	1964.8
27.5°	5401.2	5035.2	4271.1	3458.2	2495.1	1876.2	1768.3	1758.0	1796.5	1853.0	1850.5
30°	5548.9	5072.4	4114.4	3141.1	2052.1	1736.2	1684.8	1686.1	1701.5	1728.5	1732.3
32.5°	5699.1	5130.2	3961.6	2784.1	1797.8	1656.6	1633.5	1630.9	1630.9	1642.4	1645.0
35°	5841.6	5195.7	3796.0	2411.7	1674.5	1610.3	1594.9	1587.2	1583.4	1580.8	1576.9
37.5°	5921.3	5227.8	3634.2	2044.4	1609.1	1579.5	1564.1	1553.8	1539.7	1529.4	1526.9
40°	5886.6	5190.6	3446.7	1769.6	1569.2	1550.0	1532.0	1517.9	1498.6	1489.6	1484.5
42.5°	5771.0	5075.0	3242.5	1639.9	1537.1	1517.9	1496.0	1472.9	1460.1	1452.4	1451.1
45°	5649.0	4935.0	2995.9	1564.1	1506.3	1483.2	1457.5	1431.8	1417.7	1413.9	1412.6
47.5°	5645.2	4865.7	2734.0	1503.8	1469.1	1446.0	1413.9	1388.2	1372.8	1367.6	1362.5
50°	5814.7	4936.3	2438.6	1451.1	1430.6	1406.2	1370.2	1341.9	1322.7	1316.3	1315.0
52.5°	6166.5	5202.1	2174.1	1398.4	1379.2	1350.9	1321.4	1293.1	1270.0	1258.5	1257.2
55°	6546.6	5539.9	2009.7	1344.5	1318.8	1294.4	1267.5	1236.6	1211.0	1193.0	1190.4
57.5°	6939.6	5908.4	1959.6	1276.5	1257.2	1240.5	1208.4	1175.0	1145.5	1128.8	1124.9
60°	7263.2	6225.6	2053.4	1204.5	1194.3	1172.4	1142.9	1110.8	1090.3	1077.4	1074.8
62.5°	6080.5	5068.6	1657.8	1126.2	1126.2	1103.1	1069.7	1046.6	1032.5	1023.5	1020.9
65°	3858.9	3138.5	1131.3	1047.9	1046.6	1015.8	987.5	972.1	965.7	951.6	949.0
67.5°	1681.0	1434.4	967.0	968.3	963.1	929.7	901.5	889.9	877.1	861.7	860.4
70°	871.9	888.6	865.5	879.6	870.7	830.9	803.9	785.9	758.9	743.5	744.8
72.5°	703.7	721.7	747.4	769.2	749.9	717.8	675.5	653.6	619.0	602.3	603.6
75°	536.8	556.0	580.4	603.6	588.1	548.3	521.4	499.5	459.7	440.5	444.3
77.5°	369.8	380.1	409.6	408.4	403.2	391.7	351.9	326.2	285.1	262.0	264.5
80°	229.9	236.3	250.4	256.8	254.3	238.9	206.7	187.5	163.1	149.0	150.2
82.5°	138.7	142.5	155.4	156.7	155.4	143.8	119.4	105.3	89.9	82.2	82.2
85°	70.6	73.2	80.9	80.9	73.2	61.6	55.2	48.8	39.8	36.0	36.0
87.5°	19.3	19.3	24.4	20.5	16.7	15.4	7.7	6.4	2.6	1.3	1.3
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)