

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: P639189

Luminaire Tested: GWS-SA5B-735-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-735-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR 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: 14665.8 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

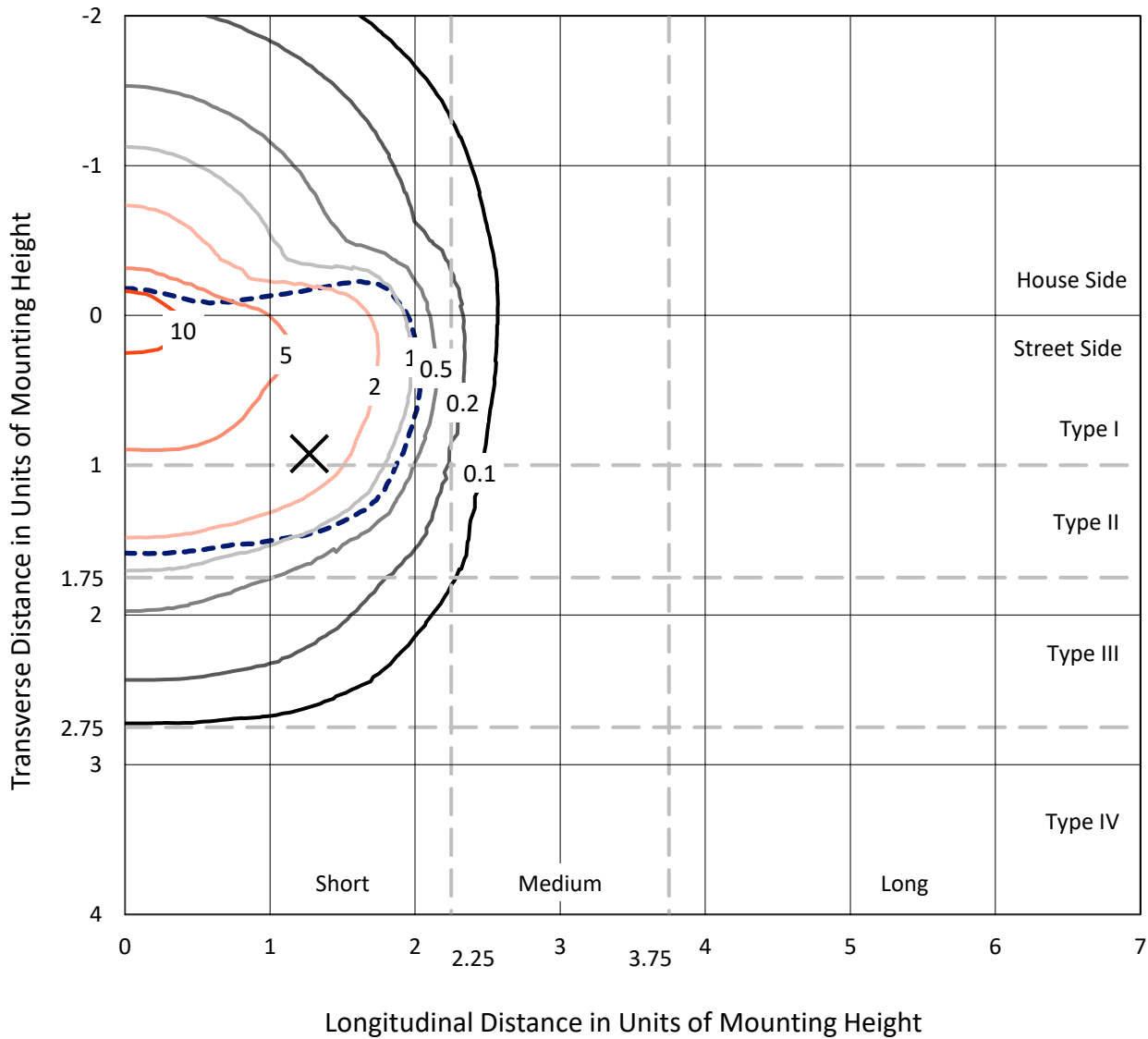
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

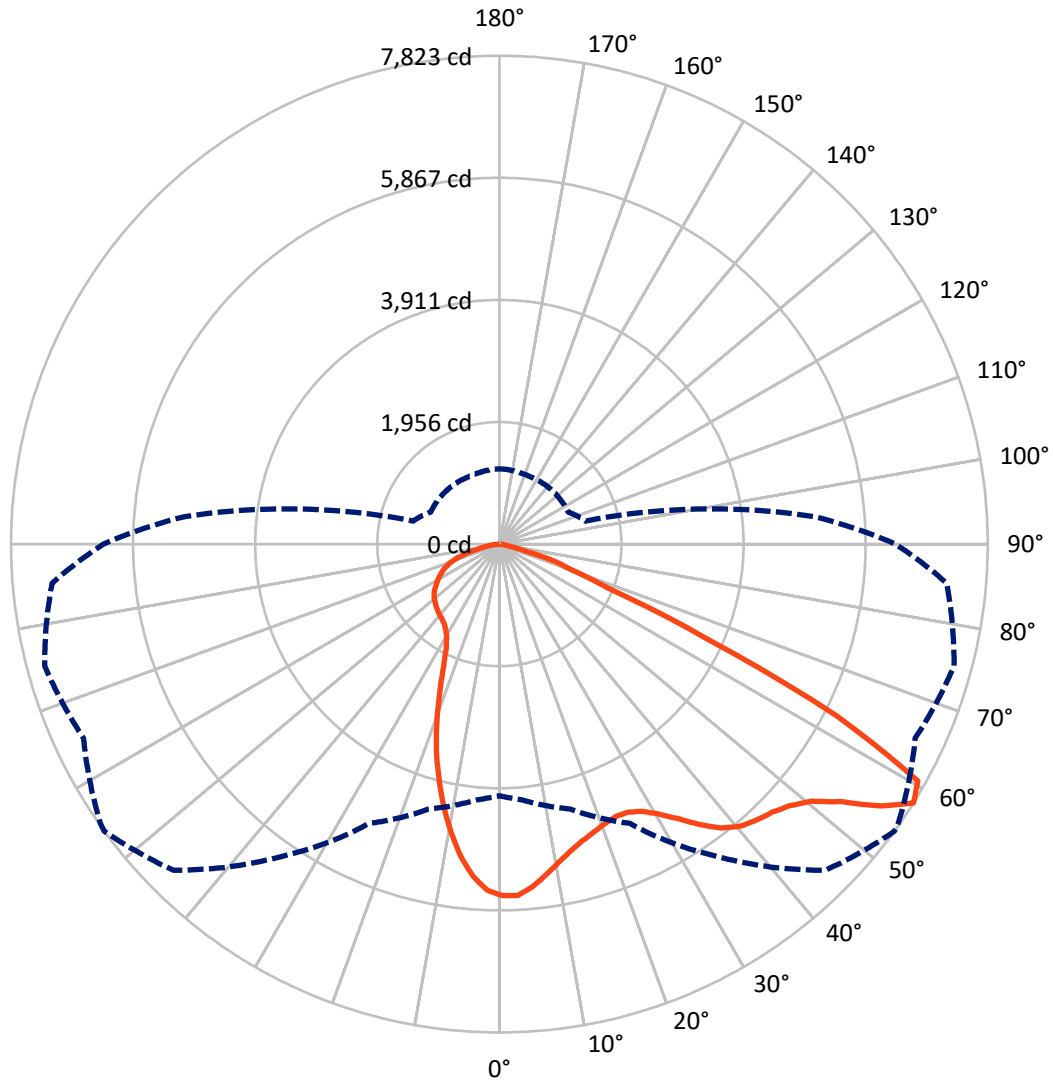
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4263.5	0.0	4263.5
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	10402.3	0.0	10402.3
	% Fixture	70.9	0.0	70.9
Total	Lumens	14665.8	0.0	14665.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.9	3.4
10°-20°	1180.9	8.1
20°-30°	1634.2	11.1
30°-40°	2270.8	15.5
40°-50°	2999.0	20.4
50°-60°	3563.9	24.3
60°-70°	1974.4	13.5
70°-80°	491.7	3.4
80°-90°	55.9	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°	14665.8	100.0
0°-180°	14665.8	100.0

Coefficient of Utilization



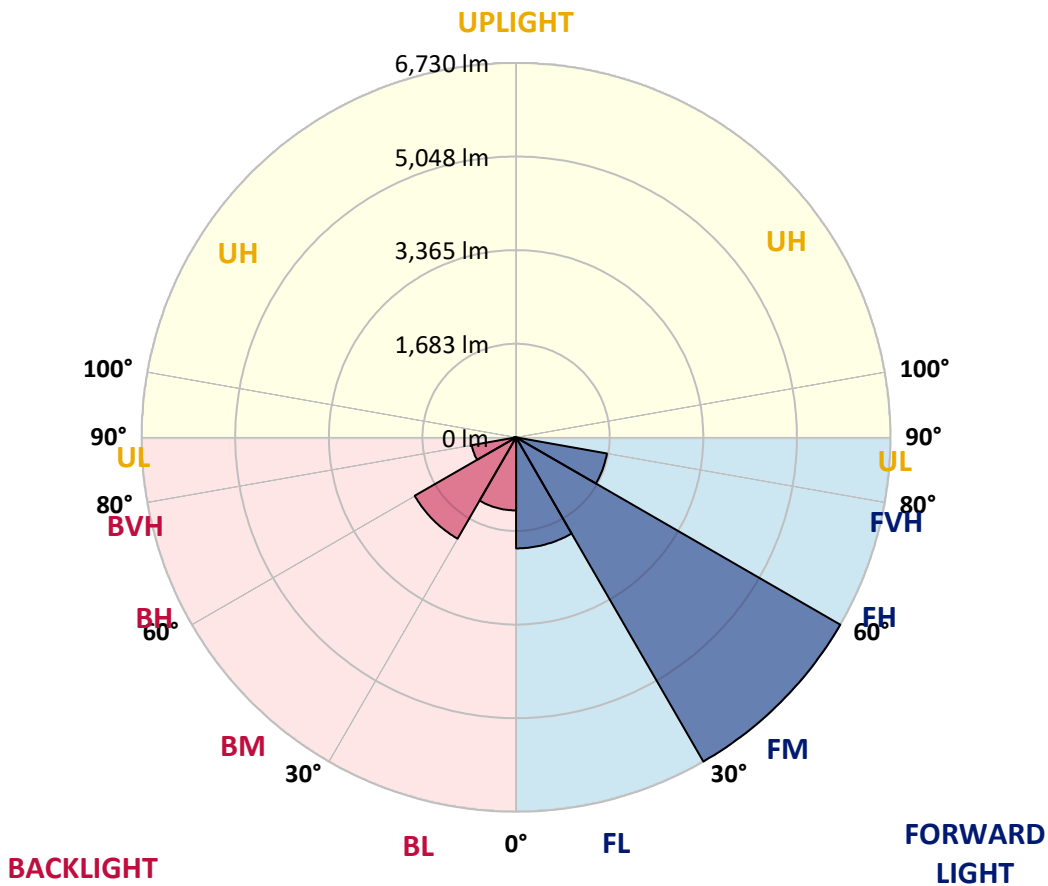
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1996.3	13.6			
FM (30°-60°)	6730.4	45.9			
FH (60°-80°)	1658.2	11.3			G1/1800
FVH (80°-90°)	17.5	0.1			G1/100
BL (0°-30°)	1313.8	9.0	B3/2500		
BM (30°-60°)	2103.3	14.3	B2/2500		
BH (60°-80°)	808.0	5.5	B2/1000		G2/1000
BVH (80°-90°)	38.4	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°	54°	55°	65°	75°	85°
0°	5630.5	5630.5	5630.5	5630.5	5630.5	5630.5	5630.5	5630.5	5630.5	5630.5	5630.5
2.5°	5525.1	5536.4	5543.9	5570.3	5592.9	5613.0	5634.3	5634.3	5633.0	5629.3	5621.7
5°	5306.6	5319.2	5336.8	5373.2	5422.1	5457.3	5515.0	5520.1	5545.2	5555.2	5550.2
7.5°	5053.0	5056.8	5079.4	5127.1	5204.9	5267.7	5350.6	5360.6	5420.9	5456.0	5449.8
10°	4775.6	4763.0	4803.2	4873.5	4975.2	5080.7	5187.4	5196.2	5292.8	5359.4	5354.3
12.5°	4522.0	4523.3	4563.4	4648.8	4775.6	4906.2	5049.3	5069.4	5188.6	5274.0	5265.2
15°	4309.8	4314.9	4363.8	4460.5	4604.9	4760.5	4938.8	4957.6	5108.3	5221.3	5196.2
17.5°	4140.4	4145.4	4188.1	4298.5	4453.0	4641.3	4858.5	4877.3	5064.3	5198.7	5147.2
20°	4023.6	4021.1	4062.5	4168.0	4327.4	4532.0	4788.2	4815.8	5050.5	5207.5	5114.6
22.5°	3975.9	3974.6	4004.8	4091.4	4240.8	4447.9	4745.5	4783.1	5065.6	5246.4	5094.5
25°	3999.8	3994.7	4021.1	4085.1	4204.4	4415.3	4758.0	4798.2	5129.6	5326.7	5098.2
27.5°	4073.8	4067.5	4090.1	4147.9	4238.3	4449.2	4845.9	4892.3	5265.2	5473.6	5148.5
30°	4186.8	4183.0	4205.6	4260.9	4340.0	4562.2	5014.1	5066.9	5474.9	5702.1	5257.7
32.5°	4318.6	4312.3	4352.5	4416.5	4508.2	4768.1	5240.1	5309.1	5723.4	5995.9	5441.0
35°	4466.8	4461.7	4517.0	4609.9	4741.7	5054.3	5513.8	5589.1	5977.0	6328.5	5684.5
37.5°	4611.1	4611.1	4717.8	4855.9	5021.7	5365.6	5771.1	5818.8	6152.8	6623.6	5945.6
40°	4739.2	4746.7	4907.4	5114.6	5325.5	5646.9	5940.6	5980.8	6230.6	6826.9	6172.9
42.5°	4881.1	4887.3	5074.4	5345.6	5596.6	5874.1	6043.6	6063.7	6245.7	6928.6	6333.6
45°	4994.0	5002.8	5235.1	5525.1	5832.7	6044.8	6125.2	6142.7	6267.0	6983.9	6450.3
47.5°	5053.0	5065.6	5331.7	5669.5	5992.1	6198.0	6259.5	6267.0	6354.9	7080.5	6590.9
50°	5043.0	5068.1	5368.2	5741.0	6110.1	6352.4	6475.4	6488.0	6534.4	7222.4	6755.4
52.5°	5132.1	5143.4	5446.0	5826.4	6278.3	6637.4	6850.8	6868.4	6847.0	7329.1	6853.3
55°	4984.0	5038.0	5349.3	5813.8	6534.4	7078.0	7406.9	7398.2	7130.8	7448.4	7016.5
57.5°	4031.1	4110.2	4395.2	4935.0	6112.6	7386.9	7822.5	7801.1	7350.5	7540.0	7193.5
60°	2790.8	2803.3	3060.7	3443.6	4717.8	6525.6	7700.7	7747.2	7390.6	7424.5	6865.9
62.5°	2232.1	2228.4	2252.2	2262.3	3000.4	4587.3	6078.7	6248.2	6140.2	5784.9	4866.0
65°	1905.7	1919.5	1989.8	1953.4	1958.4	2583.6	3631.9	3655.8	3580.4	3452.4	2573.6
67.5°	1491.4	1515.3	1639.6	1781.4	1736.2	1663.4	1884.4	1873.1	1476.4	1142.4	944.1
70°	934.0	949.1	1082.2	1398.5	1511.5	1365.9	1211.5	1206.5	790.9	650.3	713.1
72.5°	544.8	547.4	585.0	779.6	1003.1	934.0	891.3	858.7	508.4	518.5	568.7
75°	300.0	300.0	298.8	336.5	395.5	350.3	339.0	330.2	340.2	385.4	423.1
77.5°	62.8	64.0	67.8	89.1	115.5	140.6	177.0	178.3	222.2	257.4	287.5
80°	28.9	30.1	37.7	47.7	61.5	81.6	108.0	109.2	134.3	161.9	182.0
82.5°	15.1	16.3	20.1	25.1	32.6	42.7	60.3	60.3	80.3	95.4	108.0
85°	5.0	5.0	7.5	10.0	13.8	17.6	23.9	23.9	35.2	46.5	54.0
87.5°	0.0	0.0	0.0	0.0	1.3	2.5	5.0	5.0	6.3	7.5	12.6
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°	5630.5	5630.5	5630.5	5630.5	5630.5	5630.5	5630.5	5630.5	5630.5	5630.5	5630.5
2.5°	5605.4	5566.5	5567.8	5575.3	5551.4	5515.0	5491.2	5461.1	5442.2	5438.5	5452.3
5°	5525.1	5479.9	5448.5	5415.9	5348.1	5267.7	5204.9	5153.5	5119.6	5107.0	5092.0
7.5°	5414.6	5355.6	5276.5	5184.9	5061.8	4918.7	4818.3	4724.1	4658.8	4640.0	4631.2
10°	5304.1	5218.8	5078.2	4907.4	4702.8	4509.4	4327.4	4188.1	4077.6	4014.8	4034.9
12.5°	5189.9	5084.4	4864.7	4602.3	4317.4	4026.1	3787.6	3556.6	3378.3	3289.2	3262.8
15°	5089.5	4946.3	4640.0	4284.7	3905.6	3539.0	3193.8	2847.3	2621.3	2498.3	2464.4
17.5°	5004.1	4818.3	4402.7	3960.8	3507.6	2985.4	2561.0	2239.7	2085.2	2017.5	2012.4
20°	4920.0	4692.7	4168.0	3611.8	3048.1	2463.1	2084.0	1933.3	1878.1	1854.2	1853.0
22.5°	4844.6	4560.9	3920.7	3262.8	2591.2	2070.2	1861.8	1796.5	1781.4	1781.4	1778.9
25°	4780.6	4429.1	3667.1	2892.5	2178.1	1842.9	1746.3	1718.7	1724.9	1736.2	1737.5
27.5°	4754.3	4326.2	3422.3	2512.1	1893.2	1711.1	1667.2	1663.4	1681.0	1698.6	1701.1
30°	4781.9	4255.9	3171.2	2148.0	1722.4	1630.8	1610.7	1618.2	1639.6	1657.1	1657.1
32.5°	4867.2	4220.7	2915.1	1881.9	1623.3	1574.3	1568.0	1575.5	1591.9	1601.9	1603.2
35°	5011.6	4234.5	2650.2	1702.3	1559.2	1532.9	1531.6	1536.6	1542.9	1549.2	1550.4
37.5°	5193.6	4296.0	2366.5	1598.1	1517.8	1502.7	1500.2	1499.0	1500.2	1500.2	1501.5
40°	5371.9	4388.9	2112.9	1536.6	1488.9	1476.4	1470.1	1461.3	1460.0	1457.5	1456.3
42.5°	5503.7	4460.5	1910.7	1492.7	1462.6	1447.5	1440.0	1426.2	1424.9	1423.6	1422.4
45°	5602.9	4520.7	1742.5	1450.0	1434.9	1421.1	1404.8	1392.3	1394.8	1397.3	1397.3
47.5°	5714.6	4573.5	1619.5	1409.8	1401.0	1387.2	1367.1	1358.4	1367.1	1375.9	1375.9
50°	5850.2	4647.5	1519.1	1369.7	1365.9	1349.6	1332.0	1328.2	1338.3	1350.8	1350.8
52.5°	5949.4	4711.6	1447.5	1329.5	1329.5	1308.1	1293.1	1291.8	1303.1	1315.7	1316.9
55°	6135.2	4861.0	1422.4	1283.0	1278.0	1261.7	1250.4	1241.6	1255.4	1266.7	1266.7
57.5°	6344.9	5059.3	1428.7	1216.5	1210.2	1205.2	1196.4	1186.4	1190.1	1202.7	1203.9
60°	5900.4	4675.2	1359.6	1150.0	1146.2	1143.7	1132.4	1114.8	1119.8	1129.9	1131.1
62.5°	4121.5	3107.2	1099.7	1067.1	1079.7	1078.4	1063.3	1043.2	1044.5	1058.3	1058.3
65°	2139.2	1681.0	965.4	991.8	1010.6	1003.1	978.0	960.4	957.9	975.5	971.7
67.5°	922.7	917.7	878.8	912.7	932.8	916.5	890.1	861.2	863.7	870.0	865.0
70°	743.2	765.8	782.1	818.5	834.9	804.7	775.8	759.5	745.7	744.5	735.7
72.5°	593.8	625.2	661.6	699.3	704.3	674.2	637.8	622.7	601.3	600.1	591.3
75°	446.9	473.3	502.2	532.3	532.3	503.4	479.6	472.0	446.9	439.4	431.9
77.5°	305.1	321.4	344.0	351.5	359.0	347.7	323.9	311.3	282.5	274.9	264.9
80°	192.1	203.4	217.2	222.2	229.7	215.9	197.1	183.3	163.2	156.9	151.9
82.5°	115.5	123.0	131.8	134.3	140.6	130.6	113.0	102.9	91.6	86.6	82.9
85°	59.0	62.8	67.8	69.0	67.8	57.7	51.5	46.5	38.9	37.7	35.2
87.5°	15.1	17.6	18.8	17.6	16.3	12.6	8.8	6.3	2.5	2.5	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)