

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: P643153

Luminaire Tested: GWS-SA6E-735-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-735-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42402.3 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

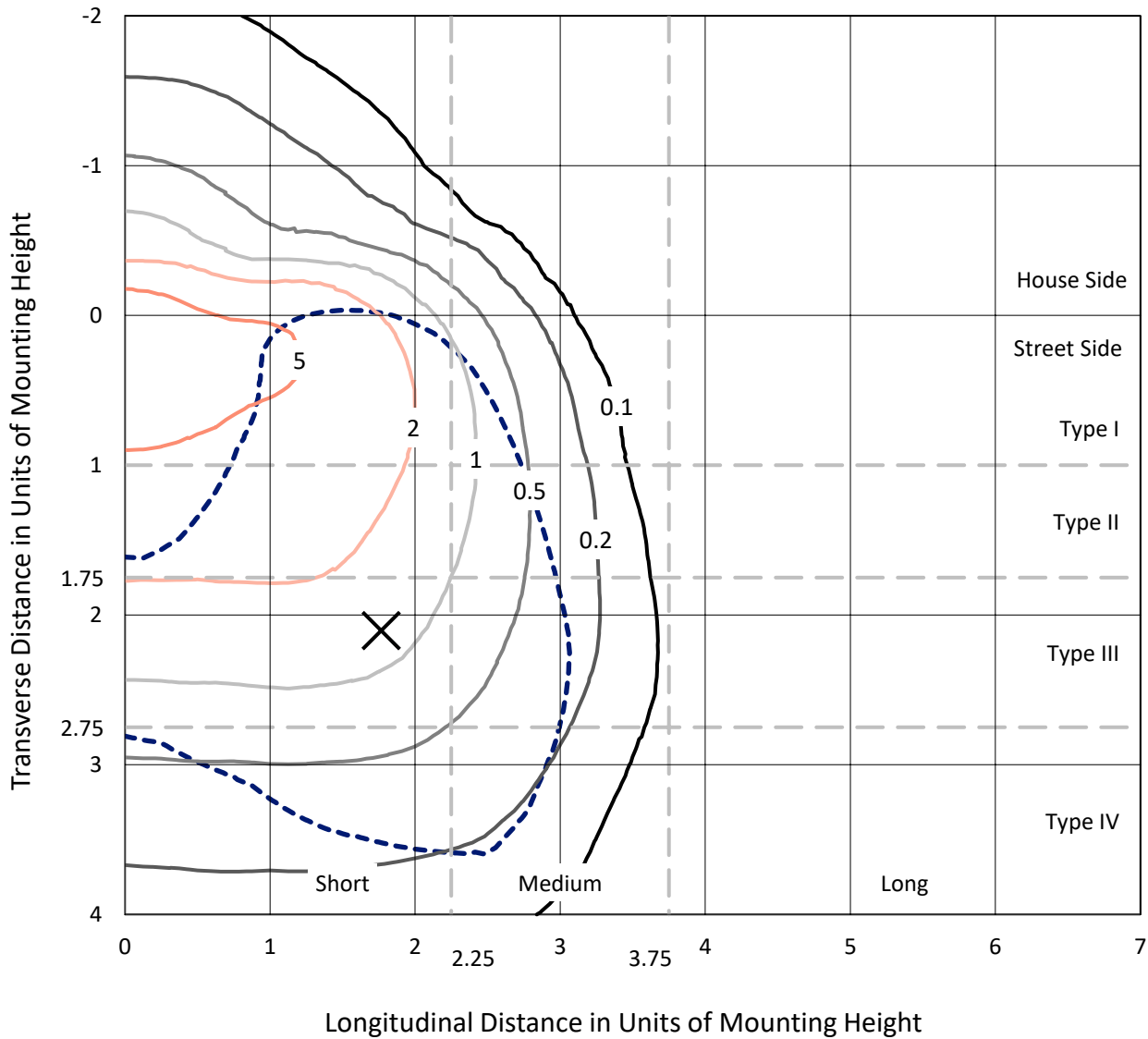
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

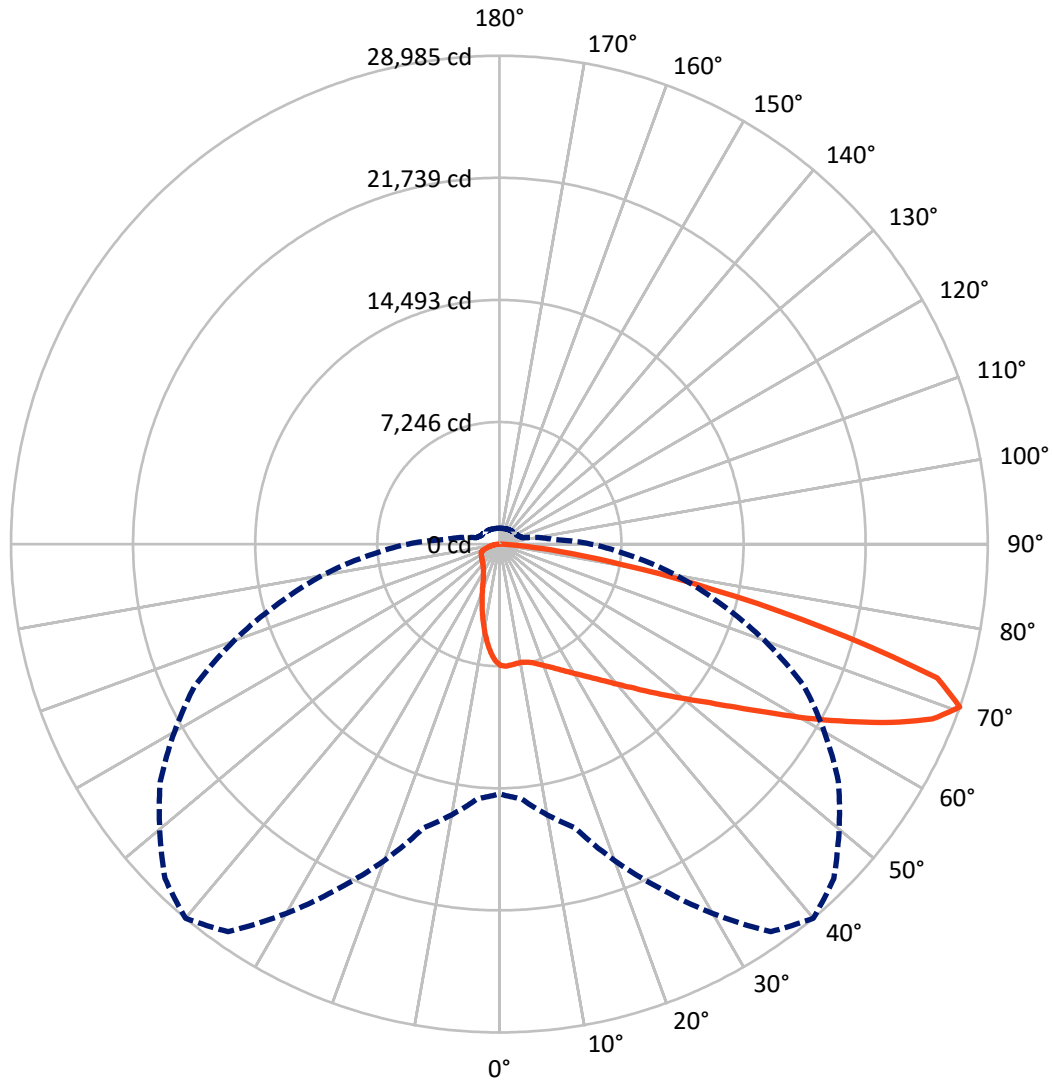
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6531.0	0.0	6531.0
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	35871.3	0.0	35871.3
	% Fixture	84.6	0.0	84.6
Total	Lumens	42402.3	0.0	42402.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	636.1	1.5
10°-20°	1658.0	3.9
20°-30°	2603.4	6.1
30°-40°	3914.3	9.2
40°-50°	6041.8	14.2
50°-60°	8972.6	21.2
60°-70°	11309.8	26.7
70°-80°	6540.4	15.4
80°-90°	725.8	1.7
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°	42402.3	100.0
0°-180°	42402.3	100.0

Coefficient of Utilization



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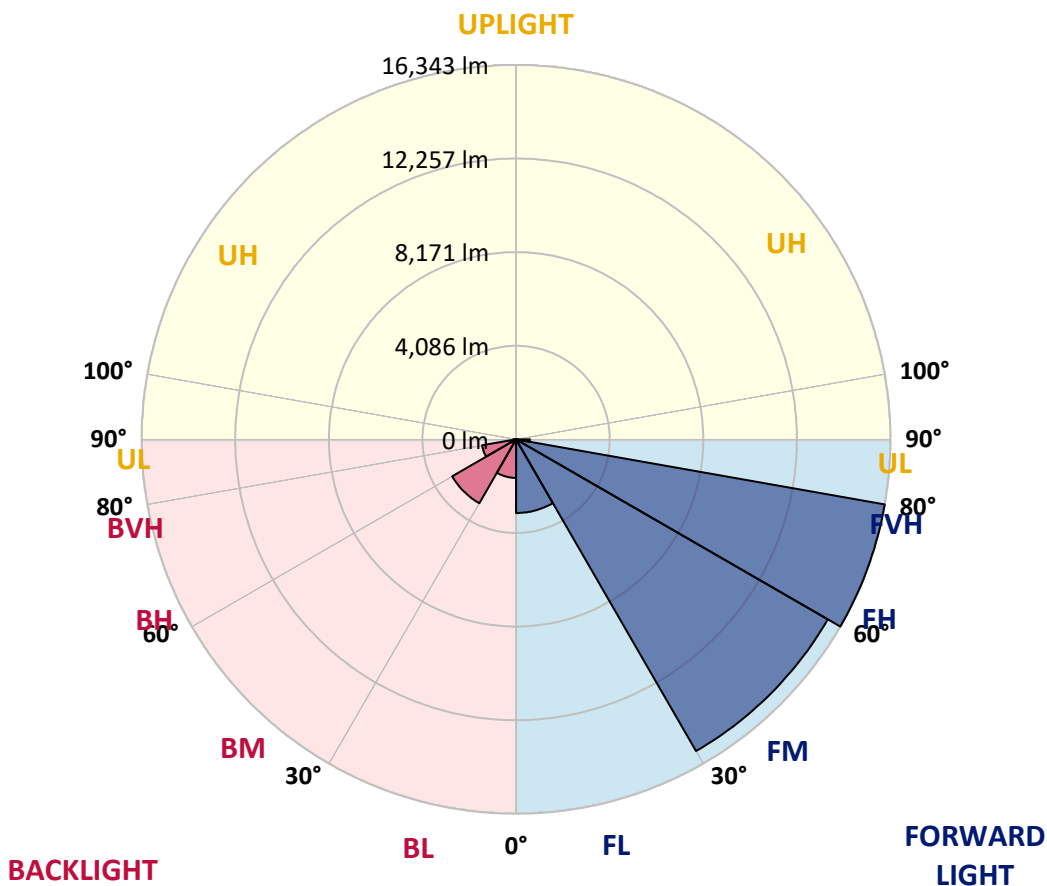
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3214.4	7.6			
FM (30°-60°)	15709.5	37.0			
FH (60°-80°)	16342.8	38.5			G5
FVH (80°-90°)	604.5	1.4			G4/750
BL (0°-30°)	1683.1	4.0	B3/2500		
BM (30°-60°)	3219.2	7.6	B3/5000		
BH (60°-80°)	1507.4	3.6	B3/2500		G3/2500
BVH (80°-90°)	121.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4
2.5°	7244.7	7257.4	7266.9	7279.5	7273.2	7254.2	7270.0	7270.0	7235.2	7197.2	7162.4
5°	7254.2	7270.0	7266.9	7263.7	7238.4	7206.7	7206.7	7187.7	7127.6	7067.5	7010.5
7.5°	7235.2	7232.0	7228.9	7219.4	7190.9	7156.1	7149.8	7111.8	7032.7	6950.4	6868.1
10°	7149.8	7146.6	7156.1	7178.2	7171.9	7140.3	7140.3	7105.4	7013.7	6912.4	6804.8
12.5°	7080.1	7080.1	7118.1	7178.2	7200.4	7187.7	7190.9	7165.6	7061.1	6940.9	6814.3
15°	7089.6	7092.8	7175.1	7273.2	7314.3	7304.8	7308.0	7279.5	7162.4	7042.1	6871.2
17.5°	7152.9	7168.7	7311.2	7447.3	7501.1	7488.4	7466.3	7418.8	7285.9	7149.8	6940.9
20°	7285.9	7311.2	7494.7	7665.7	7729.0	7700.5	7662.5	7567.5	7421.9	7273.2	7016.8
22.5°	7548.5	7564.4	7766.9	7934.7	7985.3	7950.5	7874.5	7738.4	7570.7	7415.6	7108.6
25°	7918.9	7937.8	8130.9	8286.0	8273.3	8232.2	8127.7	7960.0	7760.6	7596.0	7241.5
27.5°	8358.8	8390.4	8580.3	8703.8	8621.5	8561.4	8444.2	8241.7	8017.0	7868.2	7444.1
30°	8839.9	8852.5	9013.9	9137.4	9010.8	8928.5	8786.1	8567.7	8365.1	8254.3	7747.9
32.5°	9305.1	9317.8	9457.0	9526.7	9393.7	9333.6	9210.2	8979.1	8836.7	8776.6	8200.5
35°	9795.7	9792.5	9906.5	9966.6	9830.5	9805.2	9678.6	9501.4	9476.0	9555.2	8862.0
37.5°	10286.3	10257.8	10317.9	10397.1	10321.1	10346.4	10264.1	10204.0	10302.1	10507.8	9741.9
40°	10678.7	10678.7	10742.0	10840.2	10865.5	10976.3	10928.8	11007.9	11324.4	11815.0	10830.7
42.5°	11026.9	11030.1	11163.0	11314.9	11498.5	11669.4	11707.4	11913.1	12568.3	13337.4	12197.9
45°	11390.9	11394.0	11574.4	11796.0	12185.3	12511.3	12587.2	13049.3	13986.2	14923.0	13682.3
47.5°	11811.8	11777.0	12027.0	12397.3	12951.2	13419.6	13615.9	14271.0	15454.7	16606.8	15081.3
50°	12286.6	12213.8	12492.3	13131.6	13815.3	14457.8	14786.9	15537.0	17030.9	18160.8	16397.9
52.5°	12821.5	12780.3	13071.5	13850.1	14894.5	15635.1	16081.4	17065.7	18562.8	19708.5	17442.4
55°	13486.1	13388.0	13808.9	14799.6	16160.5	17103.7	17632.3	18578.6	20237.1	21113.8	18240.0
57.5°	14214.1	14106.4	14669.8	15986.5	17806.3	18841.3	19502.8	20281.4	21813.2	22189.9	18708.4
60°	14999.0	14964.2	15632.0	17379.1	19768.6	20971.4	21449.3	22155.1	23183.7	22813.4	18591.3
62.5°	15717.4	15704.8	16676.4	18888.8	21848.1	23171.0	23550.8	23737.6	24171.2	22772.2	17660.8
65°	16473.9	16581.5	17895.0	20639.0	24231.3	25529.0	25687.2	25212.5	24503.5	21693.0	15755.4
67.5°	16568.8	16777.7	18660.9	22278.5	26491.1	27716.0	27589.4	25772.7	23522.4	18689.4	12349.9
70°	14818.6	15182.6	17439.2	22528.5	28083.1	28985.2	28070.5	24566.8	19961.7	13539.9	7766.9
72.5°	12381.5	12694.9	14688.8	19211.6	26029.0	27177.9	25940.4	20794.1	14106.4	7766.9	3956.3
75°	9637.5	10001.4	11840.3	15271.2	19487.0	19945.9	19325.5	14502.1	7754.3	3203.0	1797.7
77.5°	5880.6	6143.3	7573.9	10346.4	13634.9	12948.1	10973.1	8130.9	3402.4	1535.0	1110.9
80°	2601.6	2763.1	3731.5	5557.8	7877.7	7447.3	5871.1	3472.0	1861.0	974.8	775.4
82.5°	1395.8	1500.2	1838.9	2199.7	3459.4	3617.6	2934.0	2000.3	1000.1	557.0	443.1
85°	614.0	674.1	835.6	797.6	1136.2	1117.2	1126.7	1373.6	477.9	256.4	288.0
87.5°	0.0	0.0	0.0	0.0	3.2	3.2	34.8	183.6	47.5	76.0	66.5
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°	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4
2.5°	7124.4	7067.5	7051.6	7032.7	6997.8	6937.7	6893.4	6842.8	6820.6	6795.3	6798.4
5°	6947.2	6877.6	6811.1	6725.6	6618.0	6497.8	6415.5	6320.5	6269.9	6222.4	6235.1
7.5°	6795.3	6687.7	6551.6	6371.2	6178.1	5962.9	5788.8	5652.7	5560.9	5497.6	5529.3
10°	6700.3	6573.7	6336.3	6042.0	5716.0	5386.8	5136.8	4902.6	4757.0	4643.1	4636.7
12.5°	6681.3	6516.8	6171.8	5744.5	5272.9	4833.0	4465.8	4149.3	3956.3	3813.8	3867.6
15°	6700.3	6491.4	6029.3	5469.1	4874.1	4279.1	3823.3	3459.4	3228.3	3098.5	3089.0
17.5°	6722.5	6466.1	5867.9	5171.6	4456.3	3775.9	3247.3	2861.2	2623.8	2494.0	2497.2
20°	6741.5	6428.1	5678.0	4845.6	4032.2	3307.4	2759.9	2392.7	2180.7	2085.7	2101.6
22.5°	6773.1	6390.2	5475.5	4497.5	3598.6	2854.8	2373.8	2076.2	1949.6	1886.3	1889.5
25°	6833.3	6368.0	5266.6	4117.7	3171.3	2494.0	2107.9	1908.5	1829.4	1791.4	1788.2
27.5°	6956.7	6387.0	5048.2	3750.5	2785.2	2218.7	1937.0	1807.2	1753.4	1728.1	1724.9
30°	7162.4	6462.9	4858.3	3377.1	2452.9	2003.5	1819.9	1740.8	1709.1	1687.0	1683.8
32.5°	7475.8	6605.4	4652.6	3028.9	2183.9	1845.2	1728.1	1687.0	1664.8	1652.1	1652.1
35°	7950.5	6864.9	4450.0	2725.1	1975.0	1721.8	1655.3	1639.5	1620.5	1614.2	1620.5
37.5°	8634.1	7279.5	4266.4	2459.2	1826.2	1626.8	1576.2	1582.5	1566.7	1576.2	1585.7
40°	9501.4	7833.4	4111.3	2240.8	1715.4	1557.2	1506.5	1528.7	1519.2	1528.7	1544.5
42.5°	10599.6	8520.2	3994.2	2069.9	1636.3	1500.2	1452.7	1474.9	1468.6	1481.2	1497.0
45°	11824.5	9425.4	3940.4	1949.6	1579.3	1459.1	1408.4	1424.3	1417.9	1427.4	1443.2
47.5°	12998.7	10248.3	3987.9	1880.0	1531.9	1424.3	1370.4	1376.8	1373.6	1370.4	1379.9
50°	14011.5	10903.5	4124.0	1857.9	1500.2	1389.4	1338.8	1342.0	1332.5	1313.5	1319.8
52.5°	14837.6	11428.8	4206.3	1857.9	1484.4	1351.5	1304.0	1307.1	1288.2	1262.8	1266.0
55°	15381.9	11640.9	4139.8	1854.7	1478.1	1319.8	1269.2	1272.3	1253.3	1221.7	1224.9
57.5°	15537.0	11435.2	3861.3	1819.9	1471.7	1294.5	1234.4	1240.7	1228.0	1193.2	1193.2
60°	15103.4	10681.9	3351.7	1740.8	1455.9	1278.7	1209.0	1218.5	1212.2	1177.4	1177.4
62.5°	13967.2	9343.1	2744.1	1620.5	1411.6	1259.7	1186.9	1205.9	1221.7	1202.7	1199.5
65°	11840.3	7485.2	2231.3	1487.6	1354.6	1228.0	1155.2	1202.7	1237.5	1262.8	1262.8
67.5°	8884.2	5358.4	1819.9	1348.3	1269.2	1164.7	1114.1	1158.4	1183.7	1199.5	1209.0
70°	5415.3	3152.3	1433.7	1186.9	1145.7	1069.8	1031.8	987.5	952.7	946.3	949.5
72.5°	2649.1	1804.1	1164.7	1009.6	978.0	908.4	822.9	803.9	788.1	778.6	775.4
75°	1459.1	1256.5	962.2	838.7	781.8	696.3	677.3	645.7	639.3	626.7	629.8
77.5°	1031.8	990.6	794.4	680.5	595.0	550.7	560.2	538.1	538.1	528.6	525.4
80°	775.4	778.6	610.8	496.9	439.9	424.1	433.6	433.6	427.3	424.1	420.9
82.5°	490.6	553.9	411.5	319.7	313.3	316.5	313.3	310.2	316.5	307.0	303.8
85°	338.7	398.8	250.0	189.9	189.9	186.7	193.1	189.9	196.2	186.7	186.7
87.5°	76.0	177.2	91.8	57.0	60.1	57.0	60.1	63.3	69.6	72.8	72.8
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)