

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: P635741

Luminaire Tested: GWS-SA3E-735-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3E-735-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21519.9 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

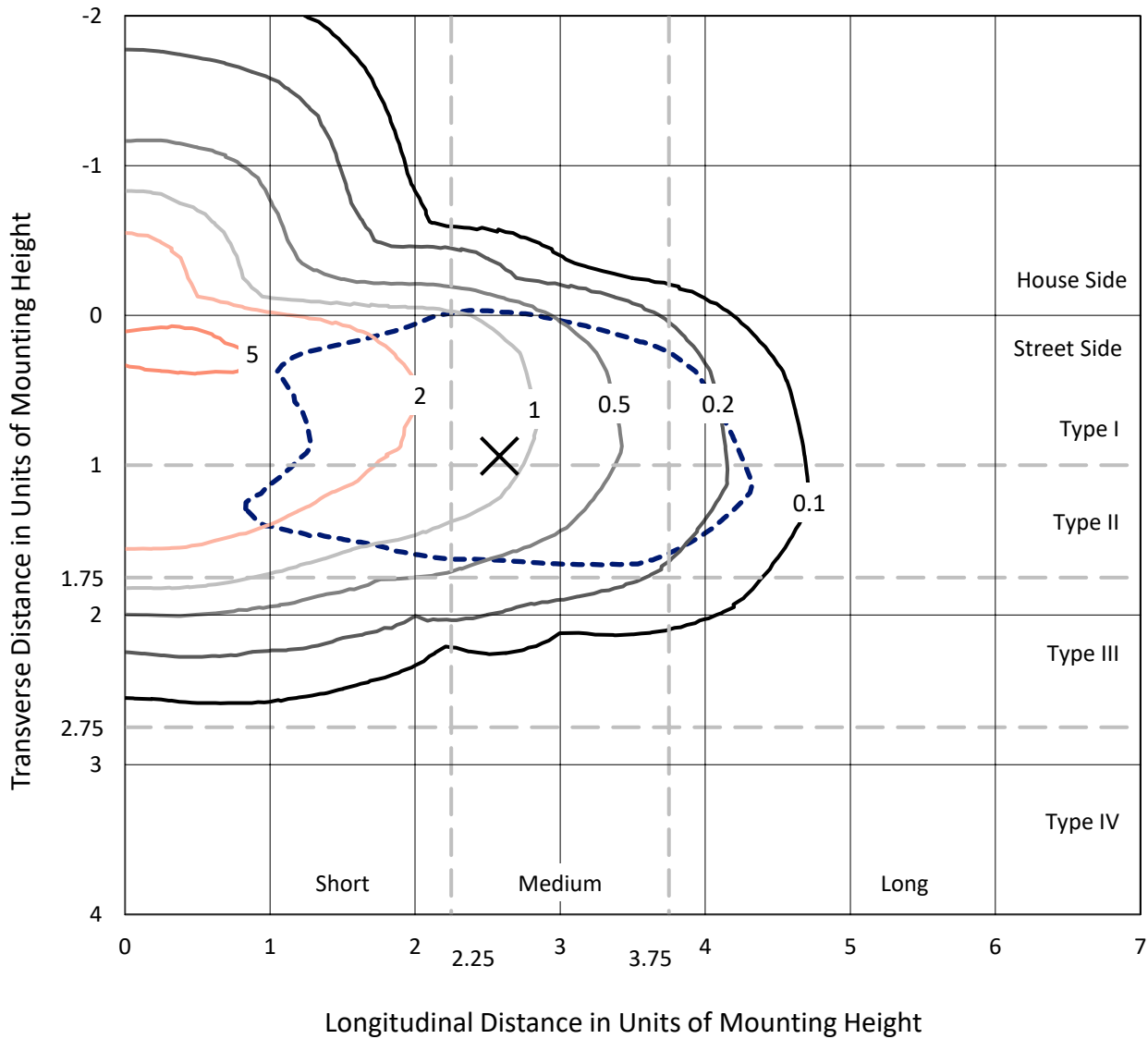
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

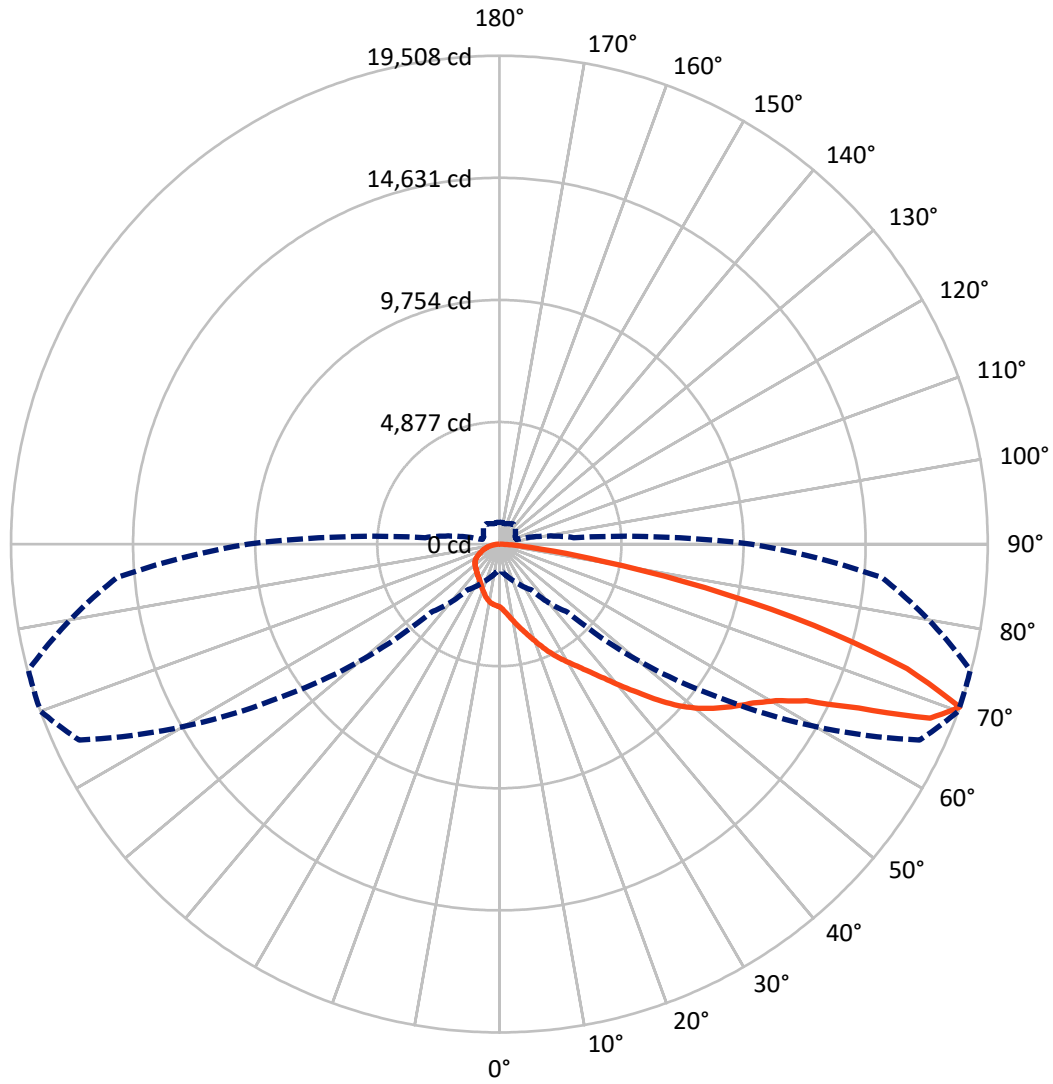
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3856.4	0.0	3856.4
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	17663.5	0.0	17663.5
	% Fixture	82.1	0.0	82.1
Total	Lumens	21519.9	0.0	21519.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.1	1.2
10°-20°	829.8	3.9
20°-30°	1470.0	6.8
30°-40°	2212.3	10.3
40°-50°	3347.0	15.6
50°-60°	4794.8	22.3
60°-70°	5300.1	24.6
70°-80°	2991.0	13.9
80°-90°	319.9	1.5
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°	21519.9	100.0
0°-180°	21519.9	100.0

Coefficient of Utilization



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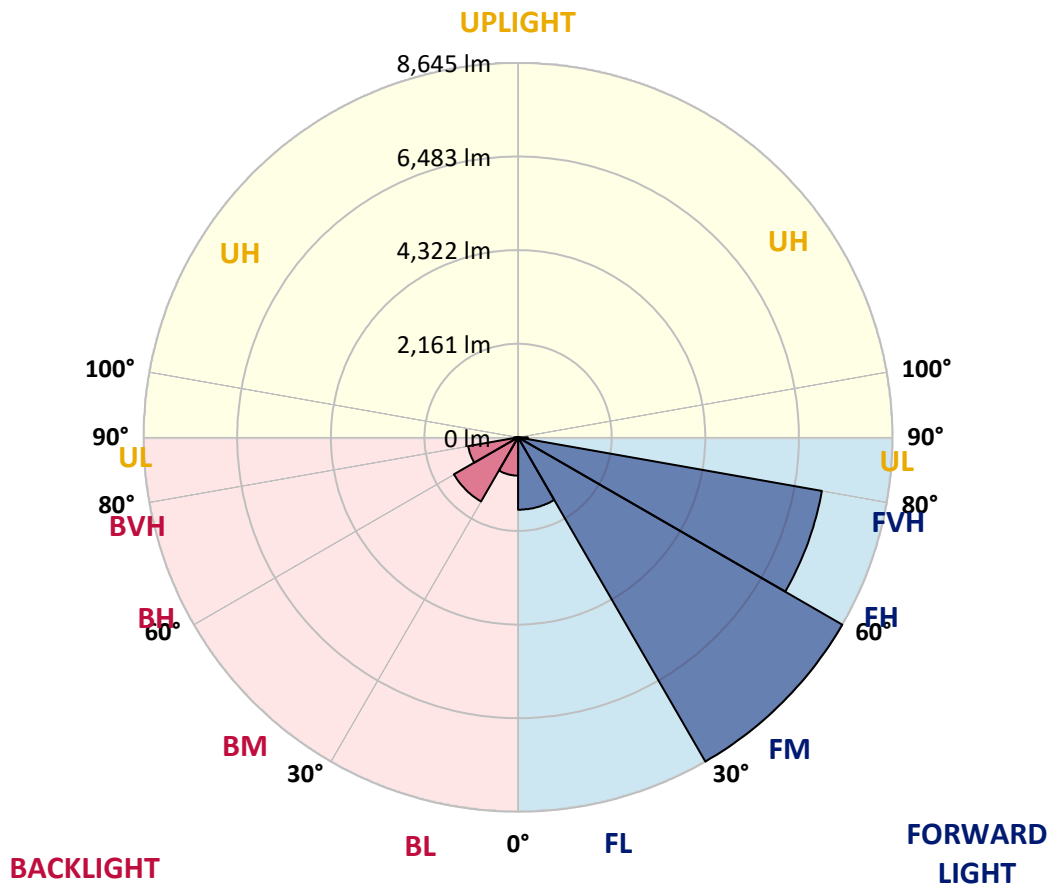
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1670.6	7.8			
FM (30°-60°)	8644.5	40.2			
FH (60°-80°)	7122.2	33.1			G3/7500
FVH (80°-90°)	226.2	1.1			G3/500
BL (0°-30°)	884.2	4.1	B2/1000		
BM (30°-60°)	1709.6	7.9	B2/2500		
BH (60°-80°)	1168.8	5.4	B3/2500		G3/2500
BVH (80°-90°)	93.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2509.7	2509.7	2509.7	2509.7	2509.7	2509.7	2509.7	2509.7	2509.7	2509.7	2509.7
2.5°	2780.2	2775.6	2778.7	2775.6	2758.5	2716.5	2682.3	2638.7	2609.2	2592.1	2551.6
5°	3106.8	3102.1	3091.2	3075.7	3044.6	2987.0	2901.5	2806.7	2749.1	2705.6	2620.1
7.5°	3341.6	3341.6	3340.0	3321.3	3299.6	3238.9	3137.9	3013.5	2929.5	2854.9	2714.9
10°	3461.3	3469.1	3479.9	3506.4	3501.7	3469.1	3374.2	3240.5	3134.8	3047.7	2839.3
12.5°	3526.6	3531.3	3549.9	3604.3	3660.3	3668.1	3612.1	3472.2	3357.1	3240.5	2977.7
15°	3610.6	3612.1	3637.0	3702.3	3784.7	3867.1	3853.1	3713.2	3595.0	3466.0	3131.6
17.5°	3675.9	3686.8	3731.8	3808.0	3910.7	4024.2	4092.6	4005.5	3859.4	3711.6	3299.6
20°	3699.2	3707.0	3766.1	3882.7	4022.6	4182.8	4335.2	4311.8	4164.1	3990.0	3489.3
22.5°	3783.2	3783.2	3826.7	3924.7	4089.5	4322.7	4570.0	4630.6	4500.0	4296.3	3693.0
25°	3968.2	3962.0	3982.2	4022.6	4147.0	4434.7	4801.6	4983.6	4837.4	4608.8	3896.7
27.5°	4221.7	4218.5	4217.0	4223.2	4265.2	4532.6	4997.6	5313.2	5167.1	4908.9	4078.6
30°	4496.9	4487.5	4507.8	4489.1	4479.8	4649.3	5163.9	5608.7	5495.1	5205.9	4229.4
32.5°	4871.6	4854.5	4849.8	4789.2	4751.9	4831.2	5297.7	5944.5	5854.3	5526.2	4398.9
35°	5366.1	5350.5	5271.2	5174.8	5064.4	5101.7	5464.0	6272.6	6278.8	5927.4	4621.3
37.5°	5865.2	5868.3	5806.1	5579.1	5465.6	5443.8	5717.5	6672.2	6806.0	6406.3	4908.9
40°	6280.4	6299.0	6299.0	6059.6	5890.1	5869.9	6073.6	7146.5	7412.4	6994.1	5272.8
42.5°	6596.0	6613.1	6667.6	6495.0	6316.1	6386.1	6505.9	7622.3	8099.7	7720.3	5733.0
45°	6942.8	6956.8	6986.3	6886.8	6782.6	6969.2	6995.7	8191.4	8886.5	8535.0	6267.9
47.5°	7403.0	7390.6	7393.7	7320.6	7239.8	7541.4	7535.2	8670.3	9646.8	9427.6	6847.9
50°	7975.3	7998.6	7976.8	7832.2	7737.4	8012.6	8048.3	9200.6	10315.4	10310.8	7432.6
52.5°	8525.7	8535.0	8650.1	8656.3	8462.0	8404.4	8497.7	9735.5	10879.9	11119.3	7993.9
55°	8553.7	8589.5	8934.7	9183.4	9497.5	9035.7	8951.8	10245.5	11425.7	11910.8	8577.0
57.5°	7958.2	8015.7	8601.9	9138.4	10012.2	10119.5	9729.2	10904.8	11971.4	12689.8	9251.9
60°	6686.2	6806.0	7602.1	8423.1	9780.5	10898.5	11319.9	11800.4	12688.3	13486.0	10071.3
62.5°	4269.9	4316.5	5432.9	6807.5	8737.2	10822.4	13052.1	13378.7	13779.8	14523.1	11333.9
65°	2138.0	2287.3	2941.9	4063.0	6300.6	9536.4	13927.6	16269.3	15777.9	16298.8	13380.2
67.5°	1450.8	1499.0	1830.2	2441.2	3694.5	6756.2	13384.9	18704.3	18559.7	18645.2	15561.8
70°	1069.8	1100.9	1362.1	1729.1	2234.4	3836.0	10656.0	18520.8	19508.2	19477.1	15333.2
72.5°	780.6	796.1	993.6	1320.1	1656.0	1984.1	6507.4	14961.6	17029.7	17926.9	13409.8
75°	567.6	586.2	690.4	987.4	1287.5	1237.7	3212.5	10806.8	12986.8	14712.8	10925.0
77.5°	422.9	446.3	494.5	618.9	901.9	886.3	1388.6	7017.4	8399.8	9609.5	6636.5
80°	304.8	309.4	337.4	396.5	572.2	519.3	660.8	3658.8	4195.2	4596.4	2601.4
82.5°	185.0	189.7	225.5	244.1	354.5	326.5	343.6	1184.9	1698.0	1802.2	971.8
85°	54.4	57.5	102.6	112.0	147.7	139.9	138.4	482.0	575.3	735.5	382.5
87.5°	0.0	0.0	0.0	0.0	1.6	9.3	17.1	85.5	129.1	178.8	93.3
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°	2509.7	2509.7	2509.7	2509.7	2509.7	2509.7	2509.7	2509.7	2509.7	2509.7	2509.7
2.5°	2536.1	2500.3	2481.7	2449.0	2425.7	2402.4	2379.1	2357.3	2348.0	2334.0	2337.1
5°	2581.2	2525.2	2469.2	2405.5	2351.1	2306.0	2265.5	2229.8	2214.2	2200.2	2206.5
7.5°	2649.6	2565.6	2458.4	2341.7	2256.2	2194.0	2152.0	2127.2	2119.4	2108.5	2108.5
10°	2736.7	2610.7	2422.6	2256.2	2153.6	2103.8	2085.2	2083.6	2091.4	2092.9	2089.8
12.5°	2833.1	2654.3	2369.7	2155.1	2068.1	2052.5	2066.5	2092.9	2119.4	2133.4	2130.3
15°	2932.6	2682.3	2279.5	2058.7	2005.9	2026.1	2071.2	2124.0	2175.4	2201.8	2200.2
17.5°	3025.9	2688.5	2162.9	1965.4	1951.4	2002.8	2080.5	2162.9	2232.9	2270.2	2271.8
20°	3130.1	2677.6	2043.2	1881.5	1897.0	1981.0	2083.6	2183.1	2265.5	2302.9	2312.2
22.5°	3224.9	2640.3	1926.6	1802.2	1850.4	1954.6	2058.7	2152.0	2225.1	2260.9	2273.3
25°	3310.5	2568.8	1799.1	1735.3	1814.6	1917.2	1996.5	2061.8	2113.2	2134.9	2152.0
27.5°	3357.1	2461.5	1702.7	1682.4	1780.4	1864.4	1907.9	1928.1	1945.2	1939.0	1951.4
30°	3366.4	2327.7	1618.7	1640.5	1729.1	1791.3	1800.6	1780.4	1750.9	1702.7	1713.5
32.5°	3357.1	2173.8	1548.7	1595.4	1671.6	1708.9	1696.4	1643.6	1572.0	1497.4	1502.1
35°	3360.2	2018.3	1491.2	1545.6	1604.7	1624.9	1593.8	1520.7	1444.5	1376.1	1373.0
37.5°	3394.4	1887.7	1443.0	1497.4	1539.4	1542.5	1508.3	1432.1	1393.2	1341.9	1335.7
40°	3489.3	1791.3	1399.4	1449.2	1475.6	1474.1	1435.2	1380.8	1407.2	1390.1	1385.4
42.5°	3644.8	1732.2	1363.7	1397.9	1416.5	1419.7	1388.6	1354.3	1411.9	1390.1	1382.3
45°	3895.1	1729.1	1338.8	1346.6	1376.1	1397.9	1376.1	1337.2	1359.0	1253.3	1233.1
47.5°	4192.1	1782.0	1320.1	1301.5	1352.8	1391.7	1357.5	1295.3	1250.2	1153.8	1139.8
50°	4549.7	1889.2	1303.0	1253.3	1318.6	1368.3	1334.1	1248.6	1180.2	1128.9	1121.1
52.5°	4974.2	2030.7	1281.3	1198.9	1267.3	1355.9	1334.1	1243.9	1153.8	1107.1	1099.3
55°	5419.0	2194.0	1256.4	1133.5	1209.7	1359.0	1345.0	1211.3	1133.5	1108.7	1102.4
57.5°	5971.0	2389.9	1211.3	1057.4	1158.4	1331.0	1301.5	1192.6	1119.6	1099.3	1093.1
60°	6687.8	2680.7	1125.8	979.6	1099.3	1281.3	1262.6	1161.5	1082.2	1065.1	1060.5
62.5°	7822.9	3173.6	1021.6	905.0	1029.4	1177.1	1205.1	1102.4	1035.6	1034.0	1032.5
65°	9673.3	3766.1	898.8	838.1	956.3	1091.6	1128.9	1041.8	987.4	1004.5	1002.9
67.5°	10970.1	3817.4	797.7	768.1	870.8	998.3	1052.7	979.6	920.5	953.2	951.6
70°	10048.0	2977.7	710.6	695.1	779.0	897.2	970.3	901.9	842.8	873.9	867.7
72.5°	8474.4	2282.6	628.2	618.9	685.7	791.5	864.5	824.1	761.9	761.9	747.9
75°	6810.6	1883.0	541.1	536.5	581.5	684.2	766.6	698.2	640.6	637.5	628.2
77.5°	3906.0	1234.6	454.0	450.9	464.9	572.2	595.5	581.5	538.0	517.8	511.6
80°	1556.5	642.2	357.6	337.4	351.4	419.8	469.6	446.3	408.9	384.1	370.1
82.5°	603.3	321.9	251.9	220.8	241.0	303.2	340.5	332.8	307.9	251.9	236.4
85°	245.7	157.0	150.8	127.5	139.9	163.3	195.9	169.5	139.9	99.5	94.9
87.5°	65.3	57.5	56.0	34.2	26.4	7.8	1.6	0.0	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)