

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: P638190

Luminaire Tested: GWS-SA4E-735-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638190
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-735-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30736 lumens
Efficiency: N/A
Efficacy: 151.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

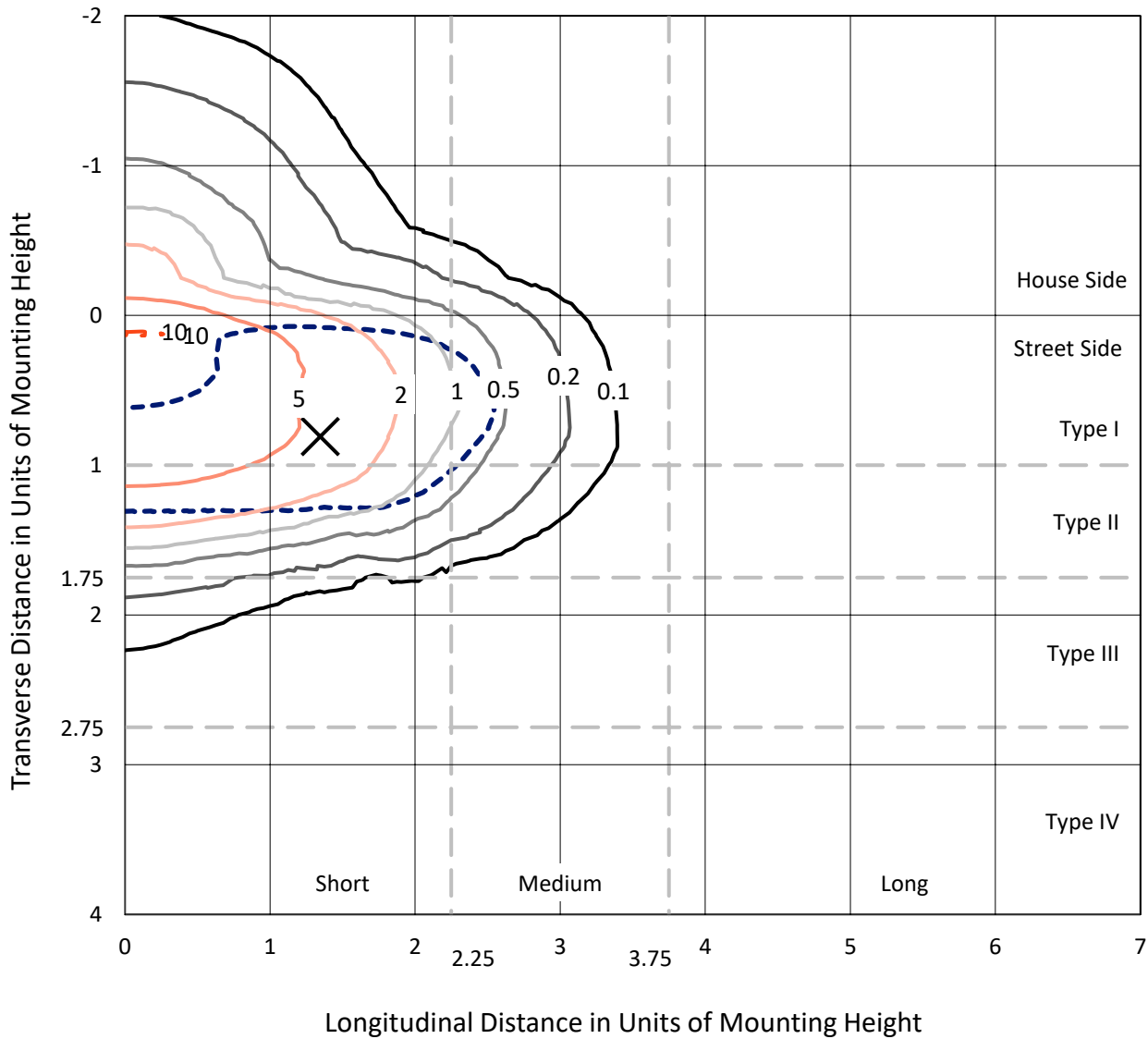
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

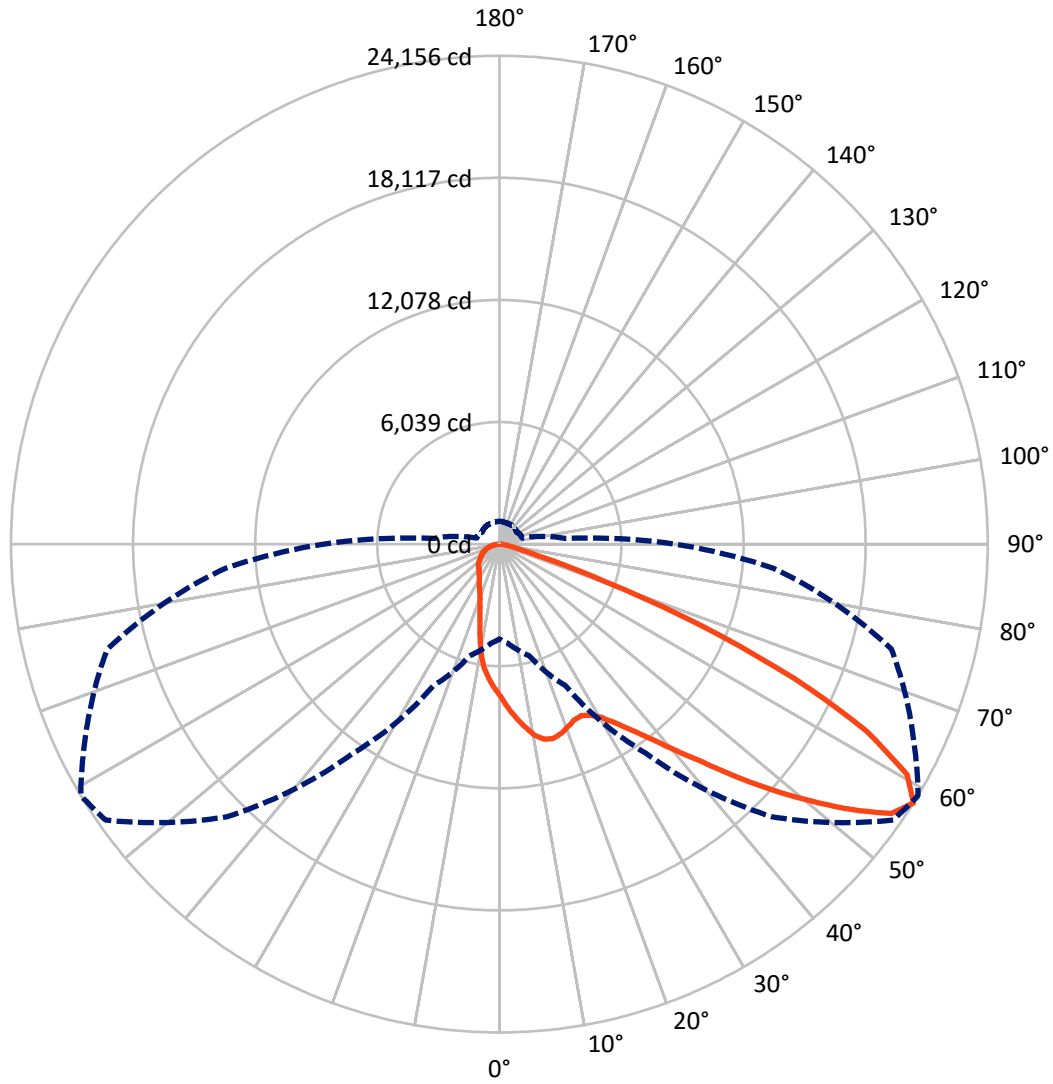
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4770.1	0.0	4770.1
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	25965.9	0.0	25965.9
	% Fixture	84.5	0.0	84.5
Total	Lumens	30736.0	0.0	30736.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	700.6	2.3
10°-20°	1775.3	5.8
20°-30°	2877.7	9.4
30°-40°	4629.2	15.1
40°-50°	7188.7	23.4
50°-60°	7743.1	25.2
60°-70°	4493.8	14.6
70°-80°	1173.2	3.8
80°-90°	154.5	0.5
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°	30736.0	100.0
0°-180°	30736.0	100.0

Coefficient of Utilization



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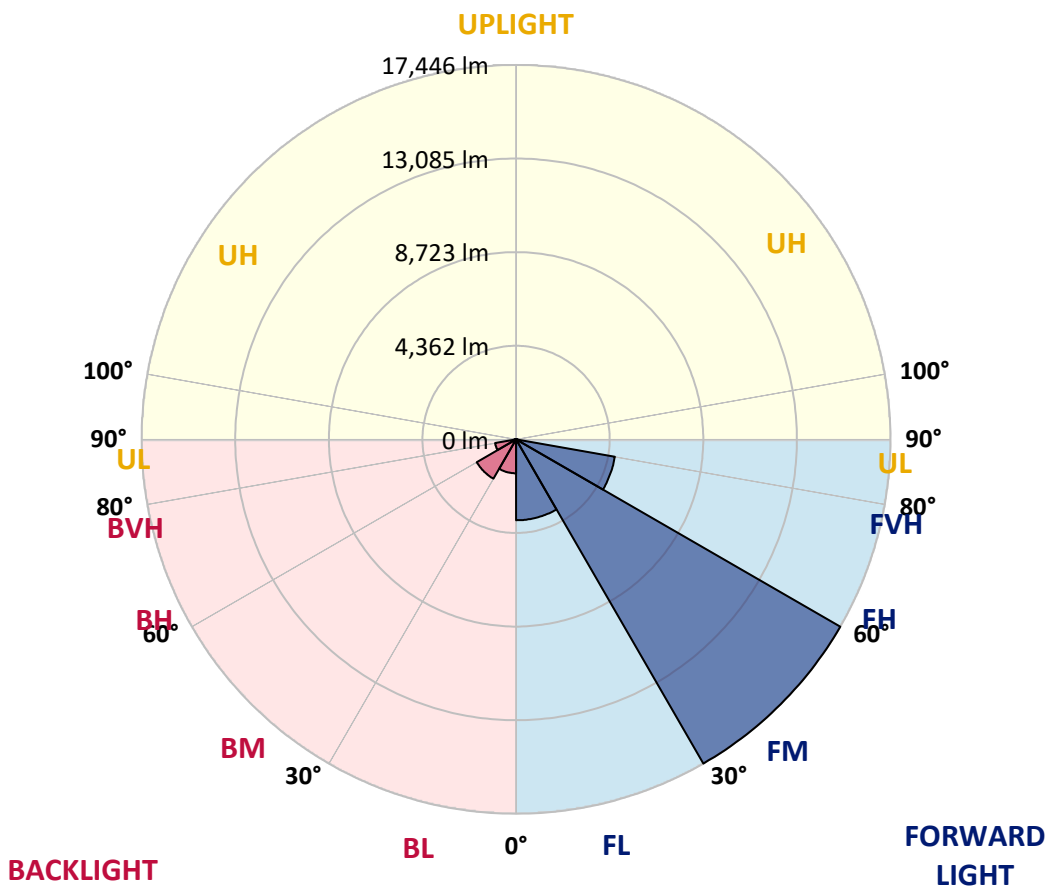
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3771.0	12.3			
FM (30°-60°)	17446.1	56.8			
FH (60°-80°)	4674.8	15.2			G2/5000
FVH (80°-90°)	74.0	0.2			G1/100
BL (0°-30°)	1582.5	5.1	B3/2500		
BM (30°-60°)	2114.9	6.9	B2/2500		
BH (60°-80°)	992.2	3.2	B2/1000		G2/1000
BVH (80°-90°)	80.6	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°	55°	59°	65°	75°	85°
0°	7545.1	7545.1	7545.1	7545.1	7545.1	7545.1	7545.1	7545.1	7545.1	7545.1	7545.1
2.5°	8557.7	8486.3	8536.1	8447.4	8410.6	8313.2	8187.7	8103.3	7973.5	7804.7	7657.6
5°	9408.1	9358.3	9369.1	9273.9	9189.5	9027.3	8769.8	8627.0	8406.3	8066.5	7750.6
7.5°	9382.1	9440.5	9473.0	9555.2	9579.0	9563.9	9332.3	9133.3	8890.9	8380.3	7904.3
10°	8410.6	8520.9	8620.5	8901.8	9243.6	9676.4	9730.5	9611.5	9367.0	8780.6	8088.2
12.5°	7352.5	7436.9	7525.6	7863.1	8386.8	9252.3	9838.7	9912.2	9814.9	9176.6	8295.9
15°	6833.2	6872.1	6956.5	7179.4	7597.0	8557.7	9650.4	9972.8	10148.1	9596.3	8529.6
17.5°	6811.6	6828.9	6870.0	6989.0	7278.9	8021.1	9310.7	9851.7	10409.9	10039.9	8802.2
20°	7259.5	7214.0	7188.1	7185.9	7328.7	7841.5	8981.8	9656.9	10533.2	10494.3	9094.3
22.5°	7880.5	7895.6	7839.3	7700.9	7683.6	7969.2	8817.4	9460.0	10570.0	10896.8	9364.8
25°	8761.1	8836.8	8670.2	8406.3	8276.4	8339.2	8919.1	9399.4	10565.7	11232.1	9533.6
27.5°	9788.9	9847.3	9678.6	9332.3	9064.0	8912.6	9222.0	9579.0	10602.5	11522.1	9635.3
30°	10959.5	10979.0	10747.5	10383.9	9992.3	9667.7	9726.2	9949.0	10790.7	11902.9	9754.3
32.5°	12389.8	12472.0	12121.5	11545.9	10998.5	10583.0	10403.4	10546.2	11197.5	12353.0	9938.2
35°	14205.2	14233.3	13787.6	12963.2	12188.5	11613.0	11236.5	11312.2	11816.4	12982.6	10215.2
37.5°	15916.7	15944.8	15471.0	14705.0	13597.1	12809.5	12264.3	12229.6	12608.3	13871.9	10667.4
40°	17002.9	17083.0	16870.9	16390.6	15332.5	14270.1	13530.1	13411.1	13646.9	14960.3	11297.1
42.5°	17587.1	17621.8	17617.4	17680.2	17050.5	15994.6	14958.2	14720.1	14878.1	16135.2	11933.2
45°	17591.5	17678.0	17909.5	18513.2	18541.4	17883.6	16762.7	16390.6	16245.6	17318.8	12597.5
47.5°	16803.9	16896.9	17533.0	18721.0	19597.3	19746.6	18924.4	18177.8	17567.7	18338.0	13142.8
50°	14419.4	14653.1	15864.8	17965.8	19805.0	21239.6	20986.4	19973.8	18742.6	19125.6	13484.6
52.5°	12348.6	12340.0	13086.5	15832.3	18937.3	21897.4	22981.4	21821.6	19904.5	19625.4	13571.2
55°	9042.4	9092.2	9856.0	12108.5	16622.1	21261.2	24078.5	23522.4	21237.4	19891.6	13536.6
57.5°	4688.9	4935.6	5718.8	7726.8	12629.9	19071.5	23786.3	24156.4	22591.9	20079.8	13582.0
60°	2369.3	2321.7	2603.0	3689.2	7317.9	14895.4	21986.1	23165.3	22836.5	20226.9	13610.1
62.5°	1581.7	1568.7	1490.8	1709.4	2990.3	8821.7	18742.6	20395.7	21137.9	19880.7	13250.9
65°	1369.7	1343.7	1200.9	1192.2	1451.9	3658.9	13737.8	16033.6	17470.3	18342.3	12391.9
67.5°	1233.4	1194.4	1049.4	978.0	1042.9	1607.7	7742.0	10753.9	12900.4	15512.1	10509.4
70°	1101.4	1081.9	936.9	833.1	826.6	980.2	2851.9	5550.1	7893.4	10583.0	7683.6
72.5°	986.7	952.1	828.7	729.2	679.4	694.6	1237.7	2137.8	4085.2	6601.7	4595.9
75°	854.7	828.7	720.5	621.0	560.4	508.5	755.2	988.8	1863.0	3137.5	2170.3
77.5°	660.0	642.6	569.1	493.3	458.7	378.7	458.7	623.2	861.2	1322.1	1129.5
80°	383.0	393.8	424.1	385.2	337.5	270.5	298.6	359.2	517.1	716.2	640.5
82.5°	192.6	205.6	274.8	222.9	201.2	158.0	177.4	212.0	270.5	396.0	251.0
85°	15.1	15.1	49.8	56.3	69.2	56.3	71.4	86.6	123.3	158.0	84.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.5	10.8	19.5	36.8	23.8
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°	7545.1	7545.1	7545.1	7545.1	7545.1	7545.1	7545.1	7545.1	7545.1	7545.1	7545.1
2.5°	7558.1	7447.7	7315.7	7207.5	7040.9	6952.2	6839.7	6701.2	6644.9	6619.0	6603.8
5°	7573.2	7378.5	7097.2	6837.5	6549.7	6322.5	6069.4	5805.4	5653.9	5617.2	5591.2
7.5°	7629.5	7356.8	6908.9	6480.5	5946.0	5450.5	4968.0	4489.8	4245.3	4152.3	4143.6
10°	7707.4	7348.2	6718.5	6006.6	5104.3	4321.1	3756.3	3382.0	3224.0	3172.1	3154.8
12.5°	7804.7	7341.7	6467.5	5348.8	4132.8	3392.8	3070.4	3009.8	3031.4	3027.1	3027.1
15°	7928.1	7350.3	6164.6	4604.5	3343.0	2944.9	2951.4	3022.8	3089.9	3100.7	3100.7
17.5°	8062.2	7341.7	5725.3	3858.0	2869.2	2838.9	2938.4	3037.9	3098.5	3107.2	3107.2
20°	8207.2	7300.6	5171.4	3154.8	2661.4	2771.8	2880.0	2957.9	2994.7	3003.3	3003.3
22.5°	8293.7	7183.7	4569.9	2670.1	2529.4	2665.8	2737.2	2817.2	2821.6	2752.3	2750.2
25°	8280.8	6965.2	3884.0	2358.5	2388.8	2507.8	2598.7	2542.4	2473.2	2434.2	2427.8
27.5°	8198.5	6636.3	3185.1	2122.7	2222.2	2356.3	2328.2	2280.6	2263.3	2220.0	2215.7
30°	8094.7	6231.7	2557.6	1938.7	2049.1	2172.4	2129.2	2124.8	2107.5	2059.9	2059.9
32.5°	7995.1	5814.1	2083.7	1802.4	1938.7	1947.4	2008.0	2012.3	2003.7	1921.4	1912.8
35°	7967.0	5396.4	1763.5	1694.2	1830.6	1826.2	1912.8	1910.6	1761.3	1646.6	1644.5
37.5°	8051.4	4972.3	1573.1	1605.5	1681.3	1737.5	1806.7	1681.3	1631.5	1562.2	1557.9
40°	8231.0	4580.7	1475.7	1553.6	1586.0	1668.3	1560.1	1568.7	1555.8	1503.8	1497.3
42.5°	8469.0	4247.5	1421.6	1536.3	1532.0	1553.6	1434.6	1469.2	1488.7	1449.7	1443.2
45°	8698.4	3957.5	1393.5	1471.4	1493.0	1367.5	1343.7	1376.2	1406.5	1391.3	1384.8
47.5°	8867.1	3706.5	1378.3	1382.7	1443.2	1304.8	1265.8	1281.0	1317.7	1324.2	1322.1
50°	8919.1	3492.3	1361.0	1309.1	1296.1	1242.0	1211.7	1207.4	1250.7	1281.0	1285.3
52.5°	8819.5	3301.9	1315.6	1244.2	1181.4	1190.1	1179.3	1157.6	1200.9	1242.0	1246.3
55°	8672.4	3193.7	1244.2	1181.4	1107.9	1142.5	1146.8	1127.3	1155.5	1183.6	1183.6
57.5°	8683.2	3256.5	1174.9	1123.0	1042.9	1088.4	1112.2	1103.5	1103.5	1125.2	1127.3
60°	8754.6	3347.4	1129.5	1049.4	978.0	1025.6	1079.7	1071.1	1051.6	1079.7	1079.7
62.5°	8549.1	3226.2	1099.2	978.0	908.8	965.0	1030.0	1025.6	1004.0	1049.4	1053.8
65°	7943.2	2901.6	1064.6	889.3	839.5	904.5	960.7	975.9	956.4	1017.0	1027.8
67.5°	6657.9	2440.7	997.5	804.9	770.3	830.9	885.0	906.6	891.5	962.9	971.5
70°	4963.7	1975.5	891.5	711.9	685.9	740.0	789.8	798.4	800.6	885.0	893.6
72.5°	3165.6	1536.3	750.8	608.0	588.5	629.7	666.4	701.1	716.2	796.3	794.1
75°	1765.6	1142.5	603.7	515.0	480.4	512.8	556.1	597.2	640.5	757.3	770.3
77.5°	1017.0	802.8	478.2	413.3	372.2	406.8	443.6	502.0	631.8	733.5	720.5
80°	573.4	521.5	361.3	302.9	277.0	302.9	331.1	441.4	497.7	540.9	547.4
82.5°	268.3	292.1	246.7	186.1	186.1	203.4	229.4	341.9	376.5	307.3	268.3
85°	97.4	132.0	121.2	95.2	84.4	82.2	142.8	194.7	121.2	108.2	93.0
87.5°	26.0	36.8	34.6	23.8	13.0	10.8	0.0	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)