

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: P637750

Luminaire Tested: GWS-SA4D-740-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637750
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-SA4D-740-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24937.5 lumens
Efficiency: N/A
Efficacy: 153.8 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): 162.1
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

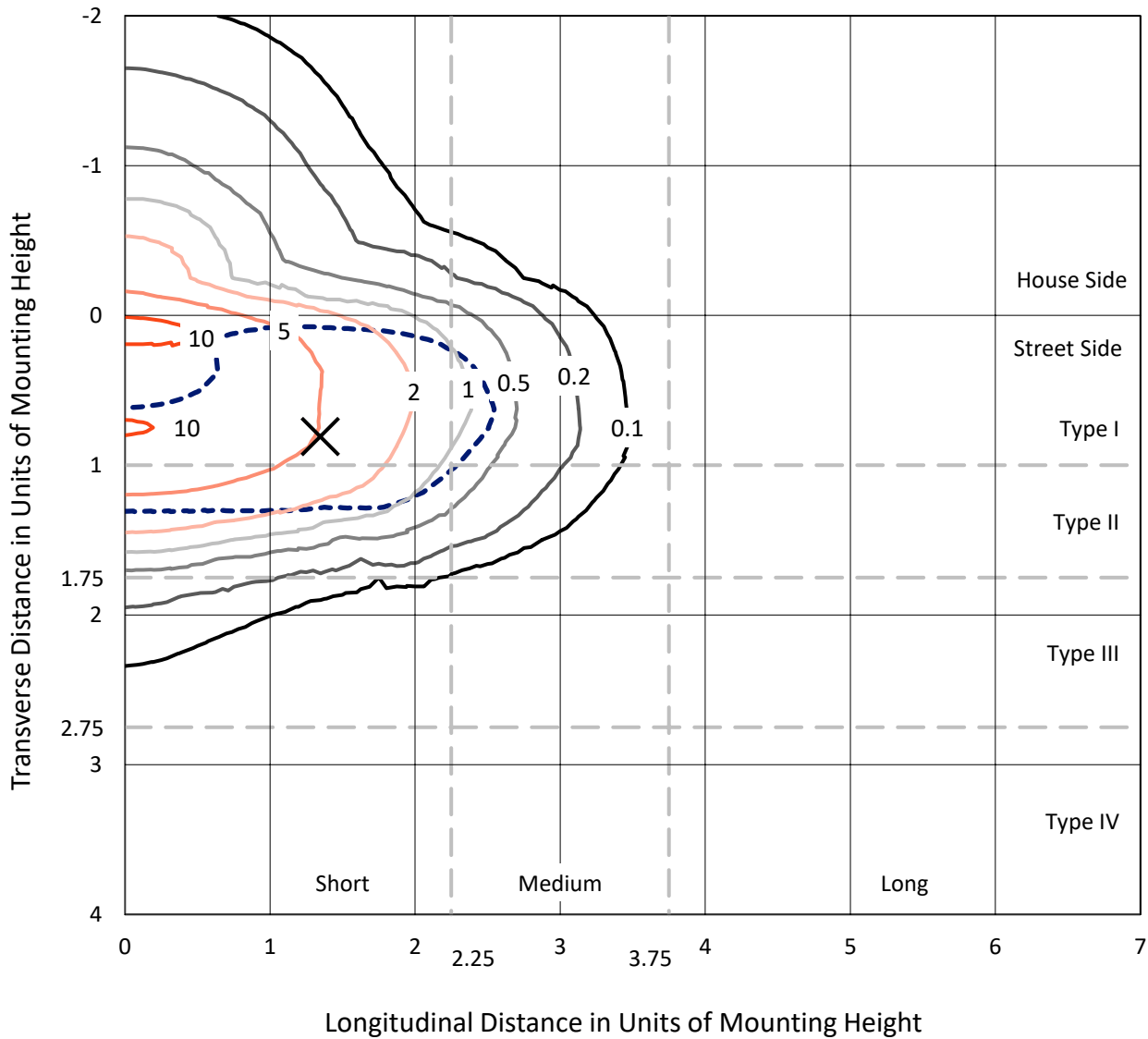


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Iso-Footcandle Lines of Horizontal Illumination

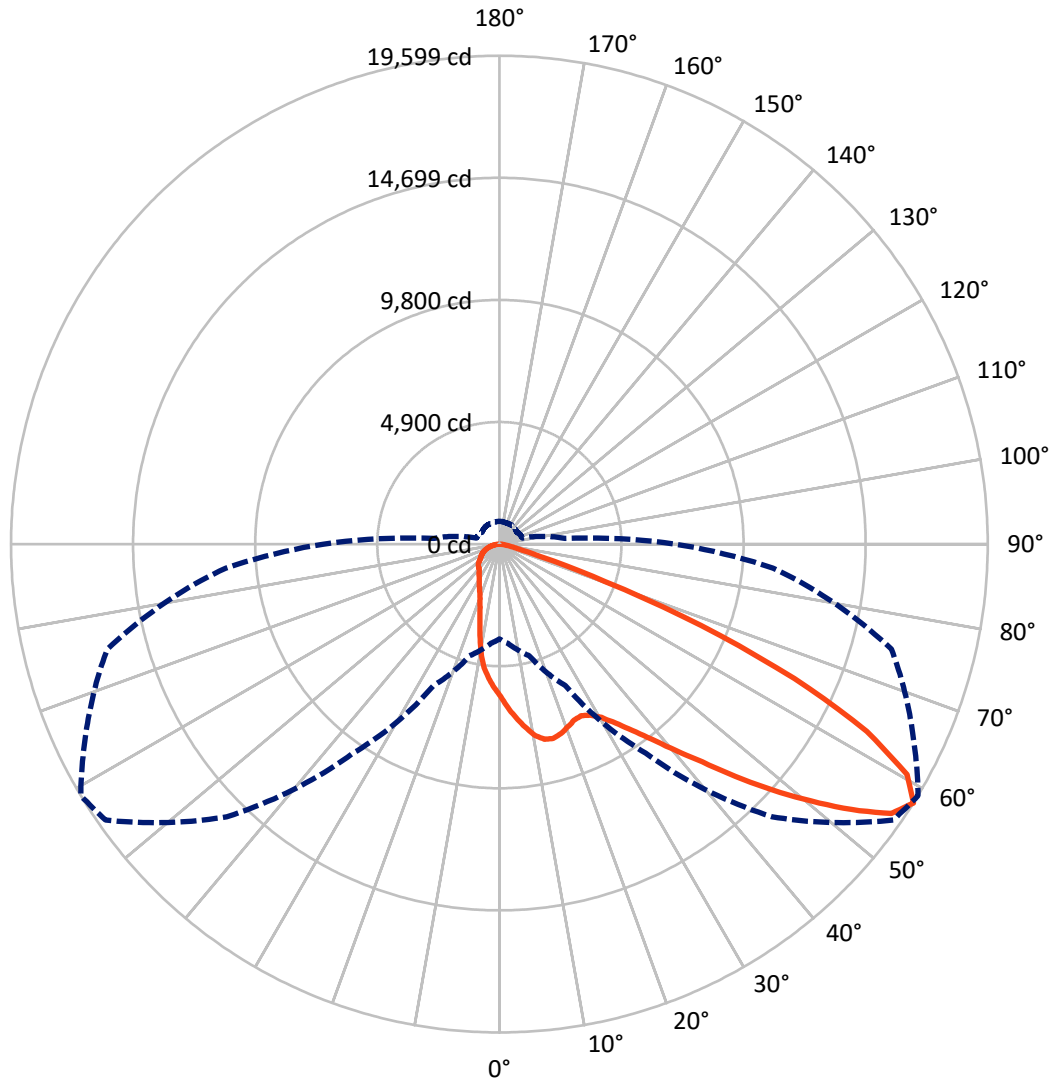
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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	3870.2	0.0	3870.2
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	21067.3	0.0	21067.3
	% Fixture	84.5	0.0	84.5
Total	Lumens	24937.5	0.0	24937.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	568.4	2.3
10°-20°	1440.3	5.8
20°-30°	2334.8	9.4
30°-40°	3755.9	15.1
40°-50°	5832.5	23.4
50°-60°	6282.3	25.2
60°-70°	3646.0	14.6
70°-80°	951.8	3.8
80°-90°	125.4	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°	24937.5	100.0
0°-180°	24937.5	100.0

Coefficient of Utilization



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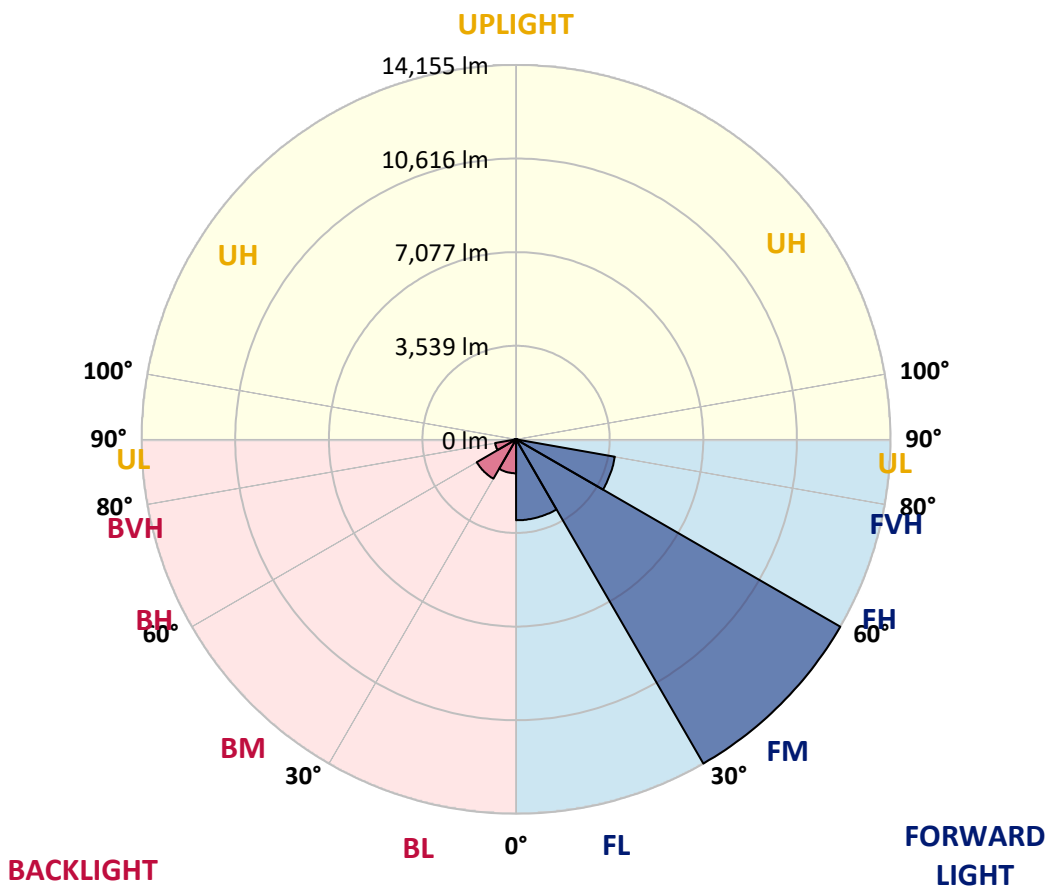
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3059.6	12.3			
FM (30°-60°)	14154.8	56.8			
FH (60°-80°)	3792.9	15.2			G2/5000
FVH (80°-90°)	60.0	0.2			G1/100
BL (0°-30°)	1284.0	5.1	B3/2500		
BM (30°-60°)	1715.9	6.9	B2/2500		
BH (60°-80°)	805.0	3.2	B2/1000		G2/1000
BVH (80°-90°)	65.4	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°	55°	59°	65°	75°	85°
0°	6121.7	6121.7	6121.7	6121.7	6121.7	6121.7	6121.7	6121.7	6121.7	6121.7	6121.7
2.5°	6943.3	6885.3	6925.7	6853.7	6823.9	6744.9	6643.1	6574.6	6469.3	6332.3	6212.9
5°	7633.2	7592.8	7601.6	7524.4	7455.9	7324.2	7115.3	6999.4	6820.4	6544.7	6288.4
7.5°	7612.1	7659.5	7685.9	7752.6	7771.9	7759.6	7571.8	7410.2	7213.6	6799.3	6413.1
10°	6823.9	6913.4	6994.2	7222.4	7499.8	7850.9	7894.8	7798.2	7599.8	7124.1	6562.3
12.5°	5965.4	6033.9	6105.9	6379.7	6804.6	7506.8	7982.6	8042.2	7963.2	7445.4	6730.8
15°	5544.1	5575.7	5644.1	5825.0	6163.8	6943.3	7829.8	8091.4	8233.6	7785.9	6920.4
17.5°	5526.5	5540.6	5573.9	5670.5	5905.7	6507.9	7554.2	7993.1	8446.0	8145.8	7141.6
20°	5889.9	5853.1	5832.0	5830.2	5946.1	6362.2	7287.4	7835.1	8546.1	8514.5	7378.6
22.5°	6393.8	6406.1	6360.4	6248.1	6234.0	6465.7	7153.9	7675.3	8575.9	8841.0	7598.1
25°	7108.3	7169.7	7034.6	6820.4	6715.0	6766.0	7236.4	7626.2	8572.4	9113.1	7735.0
27.5°	7942.2	7989.6	7852.6	7571.8	7354.1	7231.2	7482.2	7771.9	8602.3	9348.4	7817.5
30°	8891.9	8907.7	8719.9	8425.0	8107.2	7843.9	7891.3	8072.1	8755.0	9657.4	7914.1
32.5°	10052.4	10119.1	9834.7	9367.7	8923.5	8586.5	8440.8	8556.6	9085.1	10022.5	8063.3
35°	11525.3	11548.1	11186.5	10517.6	9889.1	9422.1	9116.7	9178.1	9587.1	10533.4	8288.0
37.5°	12913.9	12936.8	12552.3	11930.8	11032.0	10392.9	9950.5	9922.5	10229.7	11254.9	8654.9
40°	13795.2	13860.2	13688.1	13298.4	12439.9	11578.0	10977.6	10881.0	11072.4	12138.0	9165.8
42.5°	14269.2	14297.3	14293.8	14344.7	13833.9	12977.1	12136.2	11943.1	12071.3	13091.3	9681.9
45°	14272.7	14343.0	14530.8	15020.6	15043.4	14509.8	13600.4	13298.4	13180.8	14051.5	10220.9
47.5°	13633.7	13709.2	14225.3	15189.2	15900.2	16021.3	15354.2	14748.5	14253.4	14878.4	10663.3
50°	11699.1	11888.7	12871.8	14576.5	16068.7	17232.6	17027.2	16205.6	15206.7	15517.4	10940.7
52.5°	10019.0	10012.0	10617.7	12845.5	15364.7	17766.3	18645.9	17704.9	16149.4	15923.0	11010.9
55°	7336.5	7376.9	7996.6	9824.1	13486.3	17250.2	19535.9	19084.8	17230.9	16138.9	10982.8
57.5°	3804.3	4004.4	4640.0	6269.1	10247.2	15473.6	19298.9	19599.1	18329.9	16291.6	11019.7
60°	1922.3	1883.7	2111.9	2993.2	5937.3	12085.3	17838.3	18795.1	18528.2	16411.0	11042.5
62.5°	1283.3	1272.8	1209.6	1386.9	2426.2	7157.4	15206.7	16548.0	17150.1	16130.1	10751.1
65°	1111.3	1090.2	974.3	967.3	1178.0	2968.7	11146.1	13008.7	14174.4	14881.9	10054.1
67.5°	1000.7	969.1	851.4	793.5	846.2	1304.4	6281.4	8725.2	10466.7	12585.7	8526.8
70°	893.6	877.8	760.2	675.9	670.6	795.3	2313.8	4503.0	6404.3	8586.5	6234.0
72.5°	800.5	772.4	672.4	591.6	551.2	563.5	1004.2	1734.5	3314.5	5356.2	3728.8
75°	693.4	672.4	584.6	503.8	454.7	412.6	612.7	802.3	1511.5	2545.6	1760.8
77.5°	535.4	521.4	461.7	400.3	372.2	307.2	372.2	505.6	698.7	1072.7	916.4
80°	310.7	319.5	344.1	312.5	273.9	219.4	242.3	291.4	419.6	581.1	519.6
82.5°	156.2	166.8	223.0	180.8	163.3	128.2	144.0	172.0	219.4	321.3	203.6
85°	12.3	12.3	40.4	45.6	56.2	45.6	57.9	70.2	100.1	128.2	68.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.3	8.8	15.8	29.8	19.3
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°	6121.7	6121.7	6121.7	6121.7	6121.7	6121.7	6121.7	6121.7	6121.7	6121.7	6121.7
2.5°	6132.2	6042.7	5935.6	5847.8	5712.6	5640.6	5549.3	5437.0	5391.3	5370.3	5358.0
5°	6144.5	5986.5	5758.3	5547.6	5314.1	5129.8	4924.4	4710.2	4587.3	4557.4	4536.4
7.5°	6190.1	5968.9	5605.5	5257.9	4824.3	4422.3	4030.8	3642.8	3444.4	3368.9	3361.9
10°	6253.3	5961.9	5451.0	4873.5	4141.4	3505.9	3047.7	2743.9	2615.8	2573.7	2559.6
12.5°	6332.3	5956.6	5247.4	4339.8	3353.1	2752.7	2491.1	2442.0	2459.5	2456.0	2456.0
15°	6432.4	5963.7	5001.6	3735.8	2712.3	2389.3	2394.6	2452.5	2506.9	2515.7	2515.7
17.5°	6541.2	5956.6	4645.2	3130.2	2327.9	2303.3	2384.1	2464.8	2514.0	2521.0	2521.0
20°	6658.9	5923.3	4195.8	2559.6	2159.3	2248.9	2336.7	2399.9	2429.7	2436.7	2436.7
22.5°	6729.1	5828.5	3707.8	2166.4	2052.3	2162.9	2220.8	2285.7	2289.3	2233.1	2231.3
25°	6718.5	5651.2	3151.2	1913.6	1938.1	2034.7	2108.4	2062.8	2006.6	1975.0	1969.7
27.5°	6651.8	5384.3	2584.2	1722.2	1803.0	1911.8	1889.0	1850.4	1836.3	1801.2	1797.7
30°	6567.6	5056.0	2075.1	1573.0	1662.5	1762.6	1727.5	1724.0	1709.9	1671.3	1671.3
32.5°	6486.8	4717.2	1690.6	1462.4	1573.0	1580.0	1629.2	1632.7	1625.7	1558.9	1551.9
35°	6464.0	4378.4	1430.8	1374.6	1485.2	1481.7	1551.9	1550.2	1429.0	1336.0	1334.2
37.5°	6532.5	4034.3	1276.3	1302.6	1364.1	1409.7	1465.9	1364.1	1323.7	1267.5	1264.0
40°	6678.2	3716.5	1197.3	1260.5	1286.8	1353.5	1265.8	1272.8	1262.3	1220.1	1214.9
42.5°	6871.3	3446.2	1153.4	1246.5	1242.9	1260.5	1163.9	1192.0	1207.8	1176.2	1171.0
45°	7057.4	3210.9	1130.6	1193.8	1211.3	1109.5	1090.2	1116.5	1141.1	1128.8	1123.6
47.5°	7194.3	3007.3	1118.3	1121.8	1171.0	1058.6	1027.0	1039.3	1069.1	1074.4	1072.7
50°	7236.4	2833.5	1104.3	1062.1	1051.6	1007.7	983.1	979.6	1014.7	1039.3	1042.8
52.5°	7155.7	2679.0	1067.4	1009.5	958.5	965.6	956.8	939.2	974.3	1007.7	1011.2
55°	7036.3	2591.2	1009.5	958.5	898.8	926.9	930.4	914.6	937.5	960.3	960.3
57.5°	7045.1	2642.1	953.3	911.1	846.2	883.0	902.4	895.3	895.3	912.9	914.6
60°	7103.0	2715.9	916.4	851.4	793.5	832.1	876.0	869.0	853.2	876.0	876.0
62.5°	6936.2	2617.5	891.8	793.5	737.3	783.0	835.6	832.1	814.6	851.4	855.0
65°	6444.7	2354.2	863.7	721.5	681.2	733.8	779.5	791.8	776.0	825.1	833.9
67.5°	5401.9	1980.3	809.3	653.1	625.0	674.1	718.0	735.6	723.3	781.2	788.2
70°	4027.3	1602.8	723.3	577.6	556.5	600.4	640.8	647.8	649.6	718.0	725.0
72.5°	2568.4	1246.5	609.2	493.3	477.5	510.9	540.7	568.8	581.1	646.0	644.3
75°	1432.5	926.9	489.8	417.8	389.7	416.1	451.2	484.5	519.6	614.4	625.0
77.5°	825.1	651.3	388.0	335.3	302.0	330.0	359.9	407.3	512.6	595.1	584.6
80°	465.2	423.1	293.2	245.8	224.7	245.8	268.6	358.1	403.8	438.9	444.2
82.5°	217.7	237.0	200.1	151.0	151.0	165.0	186.1	277.4	305.5	249.3	217.7
85°	79.0	107.1	98.3	77.2	68.5	66.7	115.9	158.0	98.3	87.8	75.5
87.5°	21.1	29.8	28.1	19.3	10.5	8.8	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)